

NAVAL HEALTH RESEARCH CENTER

TECHNICAL MANUAL FOR THE NAVY COMPUTER ASSISTED MEDICAL DIAGNOSIS KNOWLEDGE BASE EDITOR (NCAMD-KBE)

Version 1.0.

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DTIC QUALITY INSPECTED 4

19961004 067

Technical Document 96-4D

Approved for public release: distribution unlimited.



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NAVAL MEDICAL RESEARCH AND DEVELOPMENT COMMAND
BETHESDA, MARYLAND

Technical Manual for the
Navy Computer Assisted Medical Diagnosis Knowledge
Base Editor (NCAMD-KBE), Version 1.0.

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Technical Document 96-4D supported by the Naval Medical Research and Development Command, Bethesda, MD, Department of the Navy, under Work Unit No. 63706N M0095.005-6103. The views expressed in this article are those of the authors and do not reflect the official policy or position of the Department of the Navy, Department of Defense, nor the U.S. Government.

SUMMARY

This technical manual contains the information on the program source code, data elements, and the database structure needed to maintain the Navy Computer Assisted Medical Diagnosis Knowledge Base Editor (NCAMD-KBE). This documentation was created using the FOXDOC Version 2.5a program.

TABLE OF CONTENTS

Introduction	1
Section I. System Summary	1
Section II. Menu File Summary	2
Section III. Screen Summary	2
A. BACKUP.SCX	2
B. KBDEL.SCX	3
C. KB.SCX	4
D. QUAL.SCX	5
E. GOAL.SCX	6
F. DISPLAY.SCX	7
G. DISEASE.SCX	8
H. ACTION.SCX	9
I. ACTELSE.SCX	9
J. CLAUSE.SCX	11
K. RULE.SCX	12
M. OBJECT.SCX	14
N. ENUM.SCX	14
O. RESTORE.SCX	15
P. DD.SCX	16
Q. PLAN.SCX	17
R. DICT.SCX	18
S. KBEDIT.SCX	19
T. OBLIST.SCX	20
U. DDEDIT.SCX	21
V. DDENUM.SCX	22
W. KBLOAD.SCX	23
Section IV. Data Dictionary	24
A. Knowledge Base Structure	24
B. Database Structure Summary	25
C. Database Field Summary	31
Section V. Tree Diagram	33
Section VI. Procedure and Function Summary	40
Section VII. Program Source Code	54

Introduction

This document is the technical guide for the Knowledge Base Editor within the Navy Computer Assisted Medical Diagnosis (NCAMD) System. FoxDoc Version 2.5a was used to generate the program code in Section VII. This technical manual describes the knowledge base data structures and reviews the diagnostic algorithm and data flows. It contains seven sections:

1. System Summary
2. Menu Summary
3. Screen Summary
4. Data Dictionary
5. Tree Diagram
6. Procedure Summary
7. Source Code Program Listing

Section I. System Summary. See the tree diagram in Section V for programs, procedures, functions, and file formats.

This system has:

13520 lines of code
1 program file
32 procedure files
178 procedures and functions
16 table/dbfs
17 index files
1 menu file
23 screen files
2 other files
612 cross-referenced tokens

Section II. Menu File Summary. The system has one menu:
KBMENU.MNX.

MENU OPTIONS	MENU OPTION IDENTIFIERS
System Help F1 ----- Backup Restore Knowledge Base Knowledge Base Area Question - Data Dictionary Exit system	 System_MST_HELP KNOWLEDGEB

Section III. Screen Summary. The system has twenty three (23) screen files: BACKUP, KB, KBDEL, QUAL, GOAL, DISPLAY, DISEASE, ACTION, ACTELSE, CLAUSE, RULE, TERM, OBJECT, ENUM, RESTORE, DD, PLAN, DICT, KBEDIT, OBLIST, DDEDIT, DDENUM, and KBLOAD.

A. BACKUP.SCX

Last updated: 10/03/94 at 15:01

0	2: message.....	
1		
2		
3	5: mfile.....	To drive:.. 1: mdrive.....
4	.....
5	.....
6	.....	Directory: 3: mpath.....
7	.....
8	.....
9	.....	«Backup»
10	.....	<Cancel>
11	.....
12		
13		
14	Backup file name:..6: mfname.....	

Window name: W_backup

Coordinates: FROM 0,0 TO 0,60

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mdrive	Popup	"@^ "
2: message	Field	
3: mpath	Popup	"@^ "
4: maction	Push button	"@*HT \!\<Backup;\<Cancel"
5: mfile	List	"@&N"
6: mfname	Field	
7: mdrive	Popup	"@^ "
8: message	Field	
9: mpath	Popup	"@^ "
10: maction	Push button	"@*VT \!\<Backup;\<Cancel"
11: mfile	List	"@&N"
12: mfname	Field	

B. KBDEL.SCX

Last updated: 10/03/94 at 15:01

Knowledge Base Delete

```

0
1 Delete: 2: name.....
2
3
4      < OK > <Cancel>

```

Name	Type	Picture
1: mbutton	Push button	"@*HT OK;Cancel"
2: area.name	Field	
3: mbutton	Push button	"@*HT OK;Cancel"
4: area.name	Field	

0				
1	<Knowledge Base> 5: name.....			
2				< Next >
3	Display thresholds	Rules 6: r		< Previous >
4		[] DIAGNOSIS		< Browse >
5	Consider 2: thr			<Qualifiers >
6		Inference 8: mpop2..		< Goals >
7	Probable 3: pro			<Conclution >
8		Confidence 7: mpop...		
9	Likely 4: lik			
10				
11				
12				
13				
14	< Add >	< Edit >	< Delete >	< OK > < Cancel >

Window name: W_kb

Coordinates: FROM 0,0 TO 0,74

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN
2: mbbbuttons	Push button	"@*VN
3: m.areaname	Field	
4: m.threshold	Field	
5: m.probable	Field	
6: m.likely	Field	
7: m.rules	Field	
8: m.isdiag	Check box	"@*C DIAGNOSIS"
9: m.mpop	Popup	"@^ BAYES;ADDITIVE"
10: m.mpop2	Popup	"@^ FORWARD;BACKWARD"
11: mbuttons	Push button	"@*HT
12: m.threshold	Field	
13: m.probable	Field	
14: m.likely	Field	
15: m.name	Field	
16: m.rules	Field	
17: m.mpop	Popup	"@^ BAYES;ADDITIVE"
18: m.mpop2	Popup	"@^ FORWARD;BACKWARD"
19: m.isdiag	Check box	"@*C DIAGNOSIS"
20: minvbutton	Push button	"@*HN \<Knowledge Base"
21: mbbbuttons	Push button	"@*VN

Qualifier Editor	
0	
1	2: mq.....
2	.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	
14	

< Add > <Delete> < OK > <Cancel>

Window name: W_qe

Coordinates: FROM 0,0 TO 12,57

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT \<Edit;\<Quit"
2: mq	List	"@&N"
3: mbuttons	Push button	"@*HN"
4: mq	List	"@&N"

Goal Object Editor	
0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	
15	< Add > < OK > <Cancel>
16	

Window name: W_goal

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Edit;\<Quit"
2: mg	List	"@&N"
3: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
4: mg	List	"@&N"

Display Object Editor

0	
1	3: md.....
2	.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	
14	
15	

< Add > <Delete> < OK > <Cancel>

Window name: W_displ

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT \<Edit;\<Quit"
2: md	List	"@&N"
3: mbuttons	Push button	"@*HT OK;Cancel"
4: mbbutton	Push button	"@*HN Add;Delete"
5: md	List	"@&N"

Disease Object Editor		
0	Id	5: id Name 1: name.....
1	Description	
2		
3	2: descript.....	
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10		
11	Treatment	
12		
13	3: treatment.....	
14	.....
15	.....
16	.....
17	.....
18	.....
19	.....
20		
21		< OK > <Cancel>

Window name: W_disease

Coordinates: FROM 0,0 TO 0,77

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	"@!"
3: m.descript	Field	
4: m.treatment	Field	
5: m.buttons	Push button	"@*HT \<OK;\<Cancel"
6: disease.name	Field	"@!"
7: disease.descript	Field	
8: disease.treatment	Field	
9: m.buttons	Push button	"@*HN \<OK;\<Cancel"
10: disease.id	Field	

H. ACTION.SCX

Last updated: 10/03/94 at 15:01

Action Editor

0		
1		< Edit >
2	4: ma.....	
3	.....	< Add >
4	.....
5	.....	<Delete>
6	.....
7	.....	< OK >
8	.....
9	.....	<Cancel>
10		

Window name: W_act

Coordinates: FROM 0,0 TO 9,75

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VN \<Edit;\<Quit"
2: ma	List	"@&N"
3: mbuttons	Push button	"@*VT \<Delete;\<OK>"
4: mebutton	Push button	"@*VN \<Edit"
5: minsbutton	Push button	"@*VN \<Add"
6: ma	List	"@&N"

I. ACTELSE.SCX

Last updated: 10/03/94 at 15:01

Action (Else) Editor

0		
1		< Edit >
2	4: me.....	
3	.....	< Add >
4	.....
5	.....	<Delete>
6	.....
7	.....	< OK >
8	.....
9	.....	<Cancel>
10		

Window name: W_act

Coordinates: FROM 0,0 TO 9,75

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VN \<Edit;\<Quit"
2: me	List	"@&N"
3: mbuttons	Push button	"@*VT \<Delete;\<OK>"
4: mebutton	Push button	"@*VN \<Edit"
5: minsbutton	Push button	"@*VN \<Add"
6: me	List	"@&N"

Clause Editor

0

1 Type < OK >

2

3 <Cancel>

4 <Object> 2: mobj.....

5

6

7 Operator

8

9 <Value>

10

11 1: val.....

12

13

14

15

16

17

18

Window name: W_clause

Coordinates: FROM 0,0 TO 0,67

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*VT \<OK;\<Cancel"
2: mtype	Popup	"@^ Qualifier;Goal"
3: mobj	Field	
4: m.op	Popup	"@^ <;<=;==;>=>;!<=;"
5: m.val	Field	
6: m.val	Field	
7: mobj	Field	
8: m.op	Popup	"@^ <;<=;==;>=>;!<=;"
9: mtype	Popup	"@^ Qualifier;Goal"
10: mbuttons	Push button	"@*VT \<OK;\<Cancel"

K. RULE.SCX

Last updated: 10/03/94 at 15:01

Rule Object Editor

0
1 Rule 1: ru Saliience 2: s
2
3 Explanation
4
5 5: explain.....
6
7
8
9
10
11 Note
12
13 6: note.....
14
15
16
17
18
19 < Add > <Delete > < Ok > <Cancel >

Window name: W_rule Window name: W_rule

Coordinates: FROM 0,0 TO 5,75

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.rule	Field	
2: m.saliience	Field	
3: mbuttons	Push button	"@*HT \<OK ;\<Cancel"
4: m.explain	Field	
5: m.note	Field	
6: m.rule	Field	
7: m.saliience	Field	
8: mbutton	Push button	"@*VN \<Add"
9: mbuttons	Push button	"@*HT
10: m.explain	Field	
11: m.note	Field	

L. TERM.SCX

Last updated: 10/03/94 at 15:01

Term Editor

0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

6: mp.....

< Edit >

< AND >

< OR >

<Insert>
<Delete>

< OK >

<Cancel>

Window name: W_term
Coordinates: FROM 0,0 TO 16,75
Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mp	List	"@&N"
2: mbuttons	Push button	"@*VN \<Edit;\<Quit"
3: mbuttons	Push button	"@*VT \<Del
4: mbutton	Push button	"@*VN \<AND"
5: morbutton	Push button	"@*VN \<OR"
6: mebutton	Push button	"@*VN \<Edit"
7: minsbutton	Push button	"@*VN \<Insert"
8: mp	List	"@&N"

M. OBJECT.SCX

Last updated: 10/03/94 at 15:01

Add New Object	
0	
1	
2	Type: <input checked="" type="checkbox"/> Subject () Disease
3	
4	<Object> 2: name.....
5	
6	ID# : 3: id
7	
8	< Ok > <Cancel>

Window name: Object

Coordinates: FROM 0,0 TO 0,53

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.object	Radio button	"@*RHN Subject;Disease"
2: m.name	Field	
3: m.id	Field	
4: m.button	Push button	"@*HT \<OK;\<Cancel"
5: m.obj	Push button	"@*HN Object"
6: m.object	Radio button	"@*RHN Subject;Disease"
7: m.name	Field	
8: m.id	Field	
9: m.button	Push button	"@*HT \<OK;\<Cancel"
10: m.obj	Push button	"@*HN Object"

N. ENUM.SCX

Last updated: 10/03/94 at 15:01

Enumerated Type Editor	
0	Mutex 3
1	Enum 4: enumerate.....
2	Ord 2:
3	< Add > < OK > <Cancel>

Window name: W_genum

Coordinates: FROM 0,0 TO 0,70

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HT OK;Cancel"
2: enum.ord	Field	
3: enum.mutex	Field	
4: enum.enumerate	Field	"@!"
5: mbutton	Push button	"@*VN Add"
6: mbuttons	Push button	"@*HT OK;Cancel"
7: enum.ord	Field	
8: enum.mutex	Field	
9: enum.enumerate	Field	"@!"
10: mbutton	Push button	"@*VN Add"

O. RESTORE.SCX

Last updated: 10/03/94 at 15:01

0 2: message.....
1
2
3 5: mfile.....
4
5
6
7
8
9
10
11
12
13
14 Restore file name:.6: mfname.....

From drive.: 1: mdrive.....

Directory: 3: mpath.....

«Restore»

<Cancel >

Window name: W_restore

Coordinates: FROM 0,0 TO 0,60

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mdrive	Popup	"@^ "
2: message	Field	
3: mpath	Popup	"@^ "
4: maction	Push button	"@*HT \!\<Restore;\<Cancel"
5: mfile	List	"@&N"
6: mfname	Field	
7: mdrive	Popup	"@^ "
8: message	Field	
9: mpath	Popup	"@^ "
10: maction	Push button	"@*VT \!\<Restore;\<Cancel"

```

11: mfile          List          "@&N"
12: mfname         Field

```

P. DD.SCX

Last updated: 10/03/94 at 15:01

Question - Data Dictionary

0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	
15	
16	

< Edit > < Add > < Delete > < Quit >

Window name: W_

Coordinates: FROM 0,0 TO 0,60

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Edit;\<Add;
2: mq	List	"@&N"

Goal Object Editor

0	
1	
2	2: mg.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	
15	
16	

< Add > < OK > <Cancel>

Window name: W_goal

Coordinates: FROM 0,0 TO 13,63

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
2: mg	List	"@&N"
3: mbuttons	Push button	"@*HN \<Add;\<OK;\<Cancel"
4: mg	List	"@&N"

Dictionary Editor

0 Id 1:... Name 2:name..... Type N

1

2 Question Askable: 4:as

3

4 5:question.....

5

6

7

8 Enum

9

10 6:mp.....

11

12

13

14

15

16

17

18

19 val: width 7:width..... Decimals 8:dec..

20 Range: Hi 9: Hi..... Lo 10:lo.. Units 11: units

21

22 < OK > < CANCEL >

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	
3: m.datatype	Popup	"@^ N;E;M;L"
4: dict.askable	Field	
5: m.question	Field	
6: mp	List	"@&N"
7: m.width	Field	
8: m.dec	Field	
9: m.hi	Field	
10: m.lo	Field	
11: m.units	Field	
12: mbuttons	Push button	"@*HT OK;Cancel"

Knowledge Base Rule Editor		
0	Knowledge Base: 1:areaname.....	< Next >
1	Rule: 2:Rule.....	
2	< IF: >	< Prev >
3		
4	4: mp.....	< Browse >
5	.....
6	.....	< Edit >
7		
8	< THEN: >	< eXit >
9		
10	6: ma.....	
11	.....
12	.....
13		
14	< ELSE: >	
15		
16	8: me.....	
17	.....
18	.....
19		
20	val: width 8: width..... Decimals 9: dec..	
21	Range: Hi 10: Hi..... Lo 11:lo.. Units 12: units	
22		
23	< OK > < CANCEL >	

Name	Type	Picture
1: m.areaname	Field	
2: rule.rule	Field	
3: minvprem	Push button	"@*HN \<IF:"
4: mp	List	"@&N"
5: minvact	Push button	"@*HN \<THEN:"
6: ma	List	"@&N"
7: minvelse	Push button	"@*HN \<ELSE:"
8: me	List	"@&N"
9: mbutton	Push button	"@*VN"

Object list	
0	
1	1: obj.....
2	.....
3	.....
4	.....
5	.....
6	.....
7	.....
8	.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	.....
15	.....
16	
17	
18	

< New > < Ok > <Cancel>

Window name: W_obj

Coordinates: FROM 0,0 TO 0,61

Window options: FLOAT CLOSE MINIMIZE SHADOW

Name	Type	Picture
1: m.obj	List	"@&N"
2: m.buttons	Push button	"@*HT \<New;\<Ok;\<Cancel"

Data Element Editor

0 Id 1:... Name 2:name..... Type

1

2 Use in rule

3

4 4. rulesuse.....

5

6

7

8 Question Askable: 5:as

9

10 6. question.....

11

12

13

14 Enum

15

16 7. mp.....

17

18

19

20 val: width 8: width..... Decimals 9: dec..

21 Range: Hi 10: Hi..... Lo 11:lo.. Units 12: units

22

23 < OK > < CANCEL >

Name	Type	Picture
1: m.id	Field	
2: m.name	Field	
3: m.datatype	Popup	"@^ N;E;M;L"
4: m.rulesuse	List	"@&N"
5: m.askable	Field	
6: m.question	Field	
7: mp	List	"@&N"
8: m.width	Field	
9: m.dec	Field	
10: m.hi	Field	
11: m.lo	Field	
12: m.units	Field	
13: m.buttons	Push button	"@*HT OK;Cancel"

V. DDENUM.SCX

Last updated: 10/03/94 at 15:01

```
0 Mutex 2:
1 Enum 3: enumerate.....
2 Ord 1:
3          < Add > < OK > <Cancel>
```

Name	Type	Picture
1: m.ord	Field	
2: m.mutex	Field	
3: m.enumerate	Field	"@!"
4: mbuttons	Push button	"@*HN Add;OK;Cancel"

0	
1	Read From Definition file:
2	1: src.....
3	
4	
5	Create Files in Temporary directory:
6	2: new.....
7	
8	3: dbf.....
9	.....
10	.....
11	.....
12	.....
13	.....
14	.....
15	

< Load >
 <Cancel>

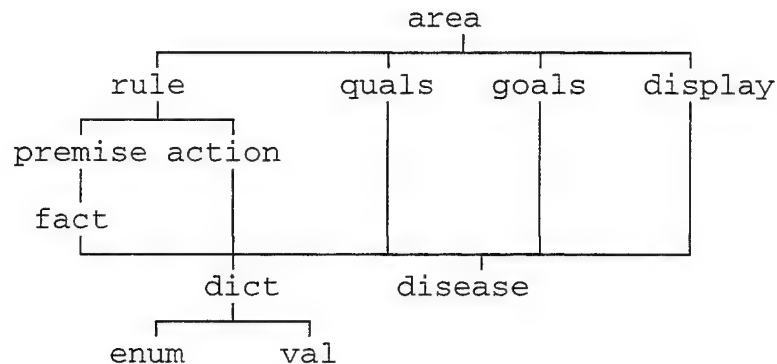
Name	Type	Picture
1: m.src	Field	
2: m.new	Field	
3: m.dbf	List	"@&N"
4: m.load	Push button	"@*VN Load"
5: mbuttonc	Push button	"@*VT Cancel"
6: m.src	Field	
7: m.new	Field	
8: m.dbf	List	"@&N"
9: m.load	Push button	"@*VT Load"
10: mbuttonc	Push button	"@*VT Cancel"

Section IV. Data Dictionary. The system contains 14 databases.

DICT.DBF	-- Data element dictionary
ACTION.DBF	-- List of action for each rule
DISEASE.DBF	-- Disease element dictionary
ENUM.DBF	-- List of values for enumerate types
HELP.DBF	-- Fox command help text
KBHELP.DBF	-- Knowledge Base Command help text
PREMISE.DBF	-- List of premises for each rule
RULE.DBF	-- List of qualifiers for each knowledge base
VAL.DBF	-- Attributes for each numeric type
AREA.DBF	-- Diagnostic area or knowledge base
GOALS.DBF	-- List of goals for each knowledge base
DISPLAY.DBF	-- List of qualifiers shown for each knowledge base
QUALS.DBF	-- List of qualifiers for each knowledge base
FACT.DBF	-- Factors in rule premises

A. Knowledge Base Structure (relationship of database)

The following chart shows the structure of the knowledge base. This structure is used to set up relationships between the database and knowledge base:



Important facts about the knowledge base include:

The **AREA** file is the primary parent of all other files, as it relates to the inference engine. Therefore, selecting an area or knowledge base, means that the associated set of rules, qualifiers, goals and displays is also selected.

The **RULE** file is the parent of the **PREMISE** and **ACTION** files. Therefore, selecting a **RULE**, means that a set of **PREMISE** and **ACTION** clauses is also selected for that rule. The inference engine can select a particular rule and then retrieve corresponding **PREMISE** and **ACTION** clauses from the

child files. Since the RULE:PREMISE and RULE:ACTION relationships are one-to-many, several PREMISE and ACTION clauses can be associated with one rule.

The **PREMISE** file is the parent of the **FACT** file. Therefore, selecting a premise means that a set of fact clauses is also selected for that premise. When the inference engine evaluates a rule premise, it can retrieve the corresponding **FACT** clauses from the child file.

The **DICT** and **DISEASE** files are the children files of several of the knowledge base tables, including the **QUALS**, **GOALS**, **DISPLAY**, **FACT**, and **ACTION** files. The **DICT** and **DISEASE** files therefore play a central role in the knowledge base structure. These are the repositories for the basic data element definitions that are used in many places throughout the knowledge base.

The **DICT** file is the parent of the **ENUM** and **VAL** files. Each **DICT** element can have several **ENUM** entries associated with it, since this is a one-to-many relationship. Each **DICT** element can have one **VAL** entry associated with it, since this is a one-to-one relationship.

B. Database Structure Summary.

1. Structure for table/dbf: **DICT.DBF**

Number of data records : 256 Last updated : 06/17/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	NAME	Character	80	0	5	84
3	ALIAS	Character	20	0	85	104
4	DATATYPE	Character	1	0	105	105
5	ASKABLE	Logical	1	0	106	106
6	QUESTION	Character	100	0	107	206
7	PROMPT	Character	80	0	207	286
8	META	Logical	1	0	287	287
** Total **			288			

This table/dbf is associated with index file/tag(s):

: **DICTID.IDX** (ID)

: **DICTNAME.IDX** (NAME)

Used by: **KB.SPR** and **DD.SPR**

2. Structure for table/dbf: **DISEASE.DBF**

Number of data records : 51 Last updated : 06/10/93

Field	Field name	Type	Width	Dec	Start	End
-------	------------	------	-------	-----	-------	-----

1	ID	Numeric	5	0	1	5
2	NAME	Character	80	0	6	85
3	ALIAS	Character	20	0	86	105
4	DESCRIPT	Memo	10	0	106	115
5	TREATMENT	Memo	10	0	116	125
6	BRIEF	Memo	10	0	126	135
** Total **			136			

This table/dbf is associated with the memo file: DISEASE.FPT

This table/dbf is associated with index file/tag(s):

: DISID.IDX (ID)

: DISEASE.IDX (NAME)

Used by: KB.SPR

3. Structure for table/dbf: **ACTION.DBF**

Number of data records : 2344 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	2	0	6	7
3	OBJECT	Character	1	0	8	8
4	ID	Numeric	5	0	9	13
5	TAG	Character	1	0	14	14
6	VAL	Character	10	0	15	24
7	TEXT	Memo	10	0	25	34
** Total **			35			

This table/dbf is associated with the memo file: ACTION.FPT

This table/dbf appears to be associated with index file/tag(s):

: ACTION.IDX (CLAUSE)

Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

4. Structure for table/dbf: **ENUM.DBF**

Number of data records : 698 Last updated : 06/07/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	ORD	Numeric	2	0	5	6
3	MUTEX	Character	1	0	7	7
4	ENUMERATE	Character	80	0	8	87
5	REPORT	Character	80	0	88	167
** Total **			168			

This table/dbf appears to be associated with index file/tag(s):

: ENUM.IDX (ID)

Used by: KB.SPR and DD.SPR

5. Structure for table/dbf: **HELP.DBF**

Number of data records : 147 Last updated : 09/17/93

Field	Field name	Type	Width	Dec	Start	End
-------	------------	------	-------	-----	-------	-----

1	TOPIC	Character	80	0	1	80
2	DETAILS	Memo	10	0	81	90
3	CLASS	Character	20	0	91	110
4	ID	Numeric	5	0	111	115
5	SOURCE	Character	1	0	116	116
** Total **			117			

This table/dbf is associated with the memo file: HELP.FPT

6. Structure for table/dbf: **KBHELP.DBF** Alias: HELP
 Number of data records : 20 Last updated : 05/29/92

Field	Field name	Type	Width	Dec	Start	End
1	TOPIC	Character	30	0	1	30
2	DETAILS	Memo	10	0	31	40
3	CLASS	Character	20	0	41	60
4	ID	Numeric	5	0	61	65
5	SOURCE	Character	1	0	66	66
** Total **			67			

This table/dbf is associated with the memo file: KBHELP.FPT
 Used by: KBLDR.PRG

7. Structure for table/dbf: **PREMISE.DBF**
 Number of data records : 1809 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	1	0	6	6
3	FACT	Numeric	5	0	7	11
4	FACTR	Numeric	5	0	12	16
** Total **			17			

This table/dbf appears to be associated with index file/tag(s):
 : PREMISE.IDX (CLAUSE)
 Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

8. Structure for table/dbf: **RULE.DBF**
 Number of data records : 564 Last updated : 06/01/93

Field	Field name	Type	Width	Dec	Start	End
1	RULE	Numeric	5	0	1	5
2	AREA	Numeric	4	0	6	9
3	SALIENCE	Numeric	3	0	10	12
4	PREMISE	Numeric	5	0	13	17
5	ACTION	Numeric	5	0	18	22
6	ELSE	Numeric	5	0	23	27
7	QUALS	Memo	10	0	28	37
8	GOALS	Memo	10	0	38	47
9	NOTE	Memo	10	0	48	57
10	EXPLAIN	Memo	10	0	58	67
** Total **			68			

This table/dbf is associated with the memo file: RULE.FPT
 This table/dbf appears to be associated with index file/tag(s):
 : RULEAREA.IDX (AREA)
 : SALIENCE.IDX (SALIENCE)
 : RULE.IDX (RULE)
 Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

9. Structure for table/dbf: **VAL.DBF**

Number of data records : 19 Last updated : 04/29/93

Field	Field name	Type	Width	Dec	Start	End
1	ID	Numeric	4	0	1	4
2	WIDTH	Numeric	2	0	5	6
3	DEC	Numeric	1	0	7	7
4	LO	Numeric	9	2	8	16
5	HI	Numeric	9	2	17	25
6	UNITS	Character	10	0	26	35
** Total **			36			

This table/dbf appears to be associated with index file/tag(s):

: VAL.IDX (ID)

Used by: KB.SPR and DD.SPR

10. Structure for table/dbf: **AREA.DBF**

Number of data records : 4 Last updated : 06/17/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	NAME	Character	30	0	5	34
3	INFERENCE	Numeric	1	0	35	35
4	METHOD	Numeric	1	0	36	36
5	ISDIAG	Numeric	1	0	37	37
6	SIGNON	Character	30	0	38	67
7	START	Character	30	0	68	97
8	FINISH	Character	30	0	98	127
9	THRESHOLD	Numeric	6	2	128	133
10	PROBABLE	Numeric	6	2	134	139
11	LIKELY	Numeric	6	2	140	145
12	RULES	Numeric	4	0	146	149
** Total **			150			

This table/dbf appears to be associated with index file/tag(s):

: AREA.IDX (AREA)

Used by: KB.SPR and DD.SPR

11. Structure for table/dbf: **GOALS.DBF**

Number of data records : 89 Last updated : 05/11/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	OBJECT	Character	1	0	5	5
3	ID	Numeric	5	0	6	10
** Total **			11			

This table/dbf appears to be associated with index file/tag(s):

: GOALS.IDX (ID)

Used by: KB.SPR and DD.SPR

12. Structure for table/dbf: **DISPLAY.DBF**

Number of data records : 5 Last updated : 12/07/92

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	5	0	1	5
2	ID	Numeric	5	0	6	10
3	OBJECT	Character	1	0	11	11
** Total **			12			

This table/dbf is not associated with index files/tags(s).
Used by: KB.SPR

13. Structure for table/dbf: **QUALS.DBF**

Number of data records : 292 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	AREA	Numeric	4	0	1	4
2	OBJECT	Character	1	0	5	5
3	ID	Numeric	5	0	6	10
4	RULES	Memo	10	0	11	20
5	RULESO	Memo	10	0	21	30
** Total **			31			

This table/dbf is associated with the memo file: QUALS.FPT
This table/dbf appears to be associated with index file/tag(s):
: QUALS.IDX (ID)
Used by: KB.SPR and DD.SPR

14. Structure for table/dbf: **FACT.DBF**

Number of data records : 1223 Last updated : 01/12/93

Field	Field name	Type	Width	Dec	Start	End
1	CLAUSE	Numeric	5	0	1	5
2	OP	Character	2	0	6	7
3	OBJECT	Character	1	0	8	8
4	ID	Numeric	5	0	9	13
5	TAG	Character	1	0	14	14
6	VAL	Character	10	0	15	24
7	TEXT	Memo	10	0	25	34
** Total **			35			

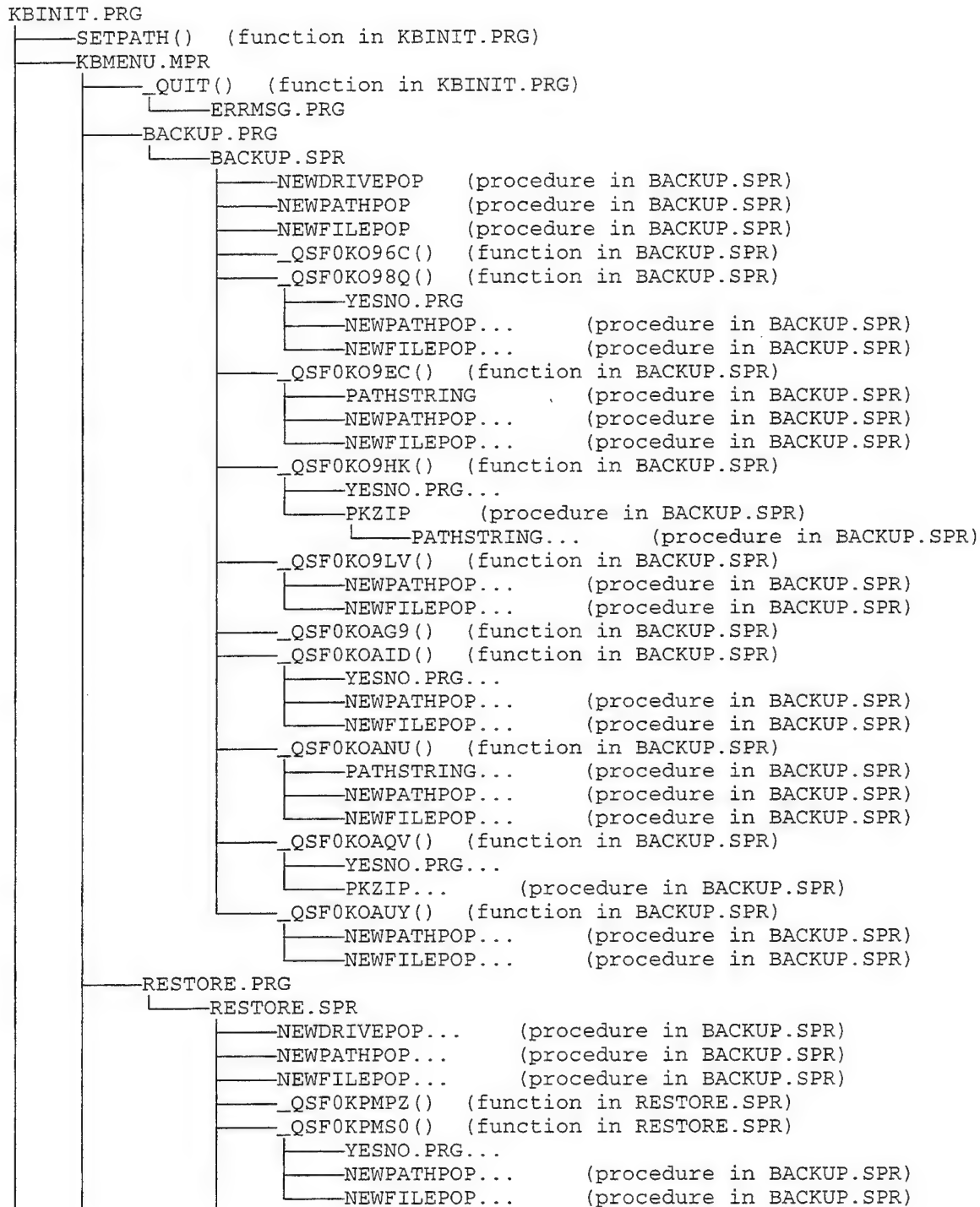
This table/dbf is associated with the memo file: FACT.FPT
This table/dbf appears to be associated with index file/tag(s):
: FACT.IDX (CLAUSE)
Used by: KBLDR.PRG, KBDELETE.PRG, and KBEDIT.SPR

C. Database Field Summary

Field Name	Type	Len	Dec	Table/DBF
ACTION	N	5	0	RULE.DBF
ALIAS	C	20	0	DICT.DBF
ALIAS	C	20	0	DISEASE.DBF
AREA	N	4	0	AREA.DBF
AREA	N	5	0	DISPLAY.DBF
AREA	N	4	0	GOALS.DBF
AREA	N	4	0	QUALS.DBF
AREA	N	4	0	RULE.DBF
ASKABLE	L	1	0	DICT.DBF
BRIEF	M	10	0	DISEASE.DBF
CLASS	C	20	0	HELP.DBF
CLASS	C	20	0	KBHELP.DBF
CLAUSE	N	5	0	ACTION.DBF
CLAUSE	N	5	0	FACT.DBF
CLAUSE	N	5	0	PREMISE.DBF
DATATYPE	C	1	0	DICT.DBF
DEC	N	1	0	VAL.DBF
DESCRIPT	M	10	0	DISEASE.DBF
DETAILS	M	10	0	HELP.DBF
DETAILS	M	10	0	KBHELP.DBF
ELSE	N	5	0	RULE.DBF
ENUMERATE	C	80	0	ENUM.DBF
EXPLAIN	M	10	0	RULE.DBF
FACT	N	5	0	PREMISE.DBF
FACTR	N	5	0	PREMISE.DBF
FINISH	C	30	0	AREA.DBF
GOALS	M	10	0	RULE.DBF
HI	N	9	2	VAL.DBF
ID	N	5	0	ACTION.DBF
ID	N	4	0	DICT.DBF
ID	N	5	0	DISEASE.DBF
ID	N	5	0	DISPLAY.DBF
ID	N	4	0	ENUM.DBF
ID	N	5	0	FACT.DBF
ID	N	5	0	GOALS.DBF
ID	N	5	0	HELP.DBF
ID	N	5	0	KBHELP.DBF
ID	N	5	0	QUALS.DBF
ID	N	4	0	VAL.DBF
INFERENCE	N	1	0	AREA.DBF
ISDIAG	N	1	0	AREA.DBF
LIKELY	N	6	2	AREA.DBF
LO	N	9	2	VAL.DBF

META	L	1	0	DICT.DBF
METHOD	N	1	0	AREA.DBF
MUTEX	C	1	0	ENUM.DBF
<u>Field Name</u>	<u>Type</u>	<u>Len</u>	<u>Dec</u>	<u>Table/DBF</u>
NAME	C	30	0	AREA.DBF
NAME	C	80	0	DICT.DBF
NAME	C	80	0	DISEASE.DBF
NOTE	M	10	0	RULE.DBF
OBJECT	C	1	0	ACTION.DBF
OBJECT	C	1	0	DISPLAY.DBF
OBJECT	C	1	0	FACT.DBF
OBJECT	C	1	0	GOALS.DBF
OBJECT	C	1	0	QUALS.DBF
OP	C	2	0	ACTION.DBF
OP	C	2	0	FACT.DBF
OP	C	1	0	PREMISE.DBF
ORD	N	2	0	ENUM.DBF
PREMISE	N	5	0	RULE.DBF
PROBABLE	N	6	2	AREA.DBF
PROMPT	C	80	0	DICT.DBF
QUALS	M	10	0	RULE.DBF
QUESTION	C	100	0	DICT.DBF
REPORT	C	80	0	ENUM.DBF
RULE	N	5	0	RULE.DBF
RULES	N	4	0	AREA.DBF
RULES	M	10	0	QUALS.DBF
RULESO	M	10	0	QUALS.DBF
SALIENCE	N	3	0	RULE.DBF
SIGNON	C	30	0	AREA.DBF
SOURCE	C	1	0	HELP.DBF
SOURCE	C	1	0	KBHELP.DBF
START	C	30	0	AREA.DBF
TAG	C	1	0	ACTION.DBF
TAG	C	1	0	FACT.DBF
TEXT	M	10	0	ACTION.DBF
TEXT	M	10	0	FACT.DBF
THRESHOLD	N	6	2	AREA.DBF
TOPIC	C	80	0	HELP.DBF
TOPIC	C	30	0	KBHELP.DBF
TREATMENT	M	10	0	DISEASE.DBF
UNITS	C	10	0	VAL.DBF
VAL	C	10	0	ACTION.DBF
VAL	C	10	0	FACT.DBF
WIDTH	N	2	0	VAL.DBF

Section V. Tree Diagram. The tree diagram shows the correlate among the function and procedure. The diagram lists each program in The order in which it is used. Each program has a list of all functions called and where the procedure/function is stored.



- QSF0KPMXI() (function in RESTORE.SPR)
 - PATHSTRING... (procedure in BACKUP.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- QSF0KPN0J() (function in RESTORE.SPR)
 - PKUNZIP (procedure in RESTORE.SPR)
 - PATHSTRING... (procedure in BACKUP.SPR)
- QSF0KPN3T() (function in RESTORE.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- QSF0KPN7E() (function in RESTORE.SPR)
- QSF0KPNY5() (function in RESTORE.SPR)
- QSF0KPO0A() (function in RESTORE.SPR)
 - YESNO.PRG...
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- QSF0KPO5T() (function in RESTORE.SPR)
 - PATHSTRING... (procedure in BACKUP.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- QSF0KPO8T() (function in RESTORE.SPR)
 - PKUNZIP... (procedure in RESTORE.SPR)
- QSF0KPOBY() (function in RESTORE.SPR)
 - NEWPATHPOP... (procedure in BACKUP.SPR)
 - NEWFILEPOP... (procedure in BACKUP.SPR)
- QSF0KPOFG() (function in RESTORE.SPR)
- KB.SPR
 - SETQUALS (procedure in KB.SPR)
 - SETGOALS (procedure in KB.SPR)
 - SETDISPLAY (procedure in KB.SPR)
 - QSF0KOFX9() (function in KB.SPR)
 - KBLOAD.SPR
 - QSF0KQBNK() (function in KBLOAD.SPR)
 - LOADOK (procedure in KBLOAD.SPR)
 - QSF0KQBT0() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQC1J() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQC42() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQC6T() (function in KBLOAD.SPR)
 - CHECKFILE() (function in KBLOAD.SPR)
 - YESNO.PRG...
 - POPUPSHOW() (function in KBINIT.PRG)
 - KBLDR.PRG
 - POPUPHIDE() (function in KBINIT.PRG)
 - QSF0KQCP2() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQCRO() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQCUA() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQCWT() (function in KBLOAD.SPR)
 - LOADOK... (procedure in KBLOAD.SPR)
 - QSF0KQCZG() (function in KBLOAD.SPR)
 - KBLDR.PRG...

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KBEDIT.SPR
├── SETPREM      (procedure in KBEDIT.SPR)
├── SEMPTY()    (function in KBEDIT.SPR)
├── HLINK()     (function in KBEDIT.SPR)
├── VLINK()     (function in KBEDIT.SPR)
├── SETACT      (procedure in KBEDIT.SPR)
├── SETELSE     (procedure in KBEDIT.SPR)
├── SETACTION() (function in KBEDIT.SPR)
├── _QSF0KQ0SA() (function in KBEDIT.SPR)
├── TERM.SPR
│   ├── ADDFACT() (function in TERM.SPR)
│   ├── CLAUSE.SPR
│   │   ├── SETOBJECT() (function in CLAUSE.SPR)
│   │   ├── _QSF0KP3SZ() (function in CLAUSE.SPR)
│   │   ├── _QSF0KP3X2() (function in CLAUSE.SPR)
│   │   ├── _QSF0KP435() (function in CLAUSE.SPR)
│   │   ├── _QSF0KP472() (function in CLAUSE.SPR)
│   │   ├── INSNEWID() (function in CLAUSE.SPR)
│   │   │   └── DP.PRG
│   │   ├── _QSF0KP5HS() (function in CLAUSE.SPR)
│   │   ├── _QSF0KP5LZ() (function in CLAUSE.SPR)
│   │   ├── _QSF0KP5Q1() (function in CLAUSE.SPR)
│   │   └── _QSF0KP5UC() (function in CLAUSE.SPR)
│   ├── SETPREM... (procedure in KBEDIT.SPR)
│   ├── _QSF0KPC3R() (function in TERM.SPR)
│   │   └── EDPREM (procedure in TERM.SPR)
│   │       ├── CLAUSE.SPR...
│   │       └── SETPREM... (procedure in KBEDIT.SPR)
│   ├── _QSF0KPC6D() (function in TERM.SPR)
│   │   └── EDPREM... (procedure in TERM.SPR)
│   ├── _QSF0KPCPM() (function in TERM.SPR)
│   ├── _QSF0KPCU9() (function in TERM.SPR)
│   │   └── SETJOIN() (function in TERM.SPR)
│   │       └── SETPREM... (procedure in KBEDIT.SPR)
│   ├── _QSF0KPCWU() (function in TERM.SPR)
│   │   └── SETJOIN() ... (function in TERM.SPR)
│   ├── _QSF0KPCZG() (function in TERM.SPR)
│   │   └── EDPREM... (procedure in TERM.SPR)
│   ├── _QSF0KPD1Z() (function in TERM.SPR)
│   │   └── ADDFACT() ... (function in TERM.SPR)
│   ├── _QSF0KPD51() (function in TERM.SPR)
│   │   └── EDPREM... (procedure in TERM.SPR)
│   ├── SETPREM... (procedure in KBEDIT.SPR)
│   └── _QSF0KQ0WK() (function in KBEDIT.SPR)
├── ACTION.SPR
└── ERRMSG.PRG...

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      _QSF0K0X5V() (function in ACTION.SPR)
      |
      |---EDACT (procedure in ACTION.SPR)
      |   |
      |   |---CLAUSE.SPR...
      |   |---SETACT... (procedure in KBEDIT.SPR)
      |
      |---_QSF0K0X9D() (function in ACTION.SPR)
      |   |
      |   |---EDACT... (procedure in ACTION.SPR)
      |
      |---ADDNEWACT() (function in ACTION.SPR)
      |   |
      |   |---CLAUSE.SPR...
      |   |---SETACT... (procedure in KBEDIT.SPR)
      |
      |---_QSF0K0XVA() (function in ACTION.SPR)
      |
      |---_QSF0K0Y50() (function in ACTION.SPR)
      |   |
      |   |---EDACT... (procedure in ACTION.SPR)
      |
      |---_QSF0K0Y8A() (function in ACTION.SPR)
      |   |
      |   |---CLAUSE.SPR...
      |   |---SETACT... (procedure in KBEDIT.SPR)
      |
      |---_QSF0K0YCP() (function in ACTION.SPR)
      |   |
      |   |---EDACT... (procedure in ACTION.SPR)
      |
      |---_QSF0KQ10R() (function in KBEDIT.SPR)
      |   |
      |   |---ACTELSE.SPR
      |   |   |
      |   |   |---ERRMSG.PRG...
      |   |   |---_QSF0KP07D() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---EDELSE (procedure in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---CLAUSE.SPR...
      |   |   |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |
      |   |   |---_QSF0KP0AR() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---EDELSE... (procedure in ACTELSE.SPR)
      |   |   |
      |   |   |---ADDNEWELSE() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---CLAUSE.SPR...
      |   |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |
      |   |   |---_QSF0KP0S3() (function in ACTELSE.SPR)
      |   |   |
      |   |   |---_QSF0KP0W3() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---EDELSE... (procedure in ACTELSE.SPR)
      |   |   |
      |   |   |---_QSF0KP0YP() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---ADDNEWELSE() ... (function in ACTELSE.SPR)
      |   |   |   |   |
      |   |   |   |   |---CLAUSE.SPR...
      |   |   |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |   |
      |   |   |---_QSF0KP13M() (function in ACTELSE.SPR)
      |   |   |   |
      |   |   |   |---EDELSE... (procedure in ACTELSE.SPR)
      |   |   |
      |   |   |---SETELSE... (procedure in KBEDIT.SPR)
      |
      |---_QSF0KQ14Z() (function in KBEDIT.SPR)
      |   |
      |   |---RULE.SPR
      |   |   |
      |   |   |---_QSF0KP97Y() (function in RULE.SPR)
      |   |   |---_QSF0KPA3B() (function in RULE.SPR)
      |   |   |---_QSF0KPA7J() (function in RULE.SPR)
      |   |   |---YESNO.PRG...
      |   |
      |   |---SETPREM... (procedure in KBEDIT.SPR)
      |   |---SETACT... (procedure in KBEDIT.SPR)
      |   |---SETELSE... (procedure in KBEDIT.SPR)
      |   |---SETACTION() ... (function in KBEDIT.SPR)
      |
      |---KBDEL.SPR
      |   |
      |   |---_QSF0K0KEU() (function in KBDEL.SPR)
      |   |   |
      |   |   |---KBDELETE.PRG
      |   |
      |   |---_QSF0K0KPT() (function in KBDEL.SPR)
      |   |   |
      |   |   |---KBDELETE.PRG...
  
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—SETQUALS...      (procedure in KB.SPR)
—SETGOALS...      (procedure in KB.SPR)
—SETDISPLAY...    (procedure in KB.SPR)
—QSF0KOG2M()      (function in KB.SPR)
—QUAL.SPR
  —QSF0KOMJF()     (function in QUAL.SPR)
    —EDQUAL        (procedure in KB.SPR)
      —EDOBJ()     (function in KB.SPR)
        —DISEASE.SPR
          —_QSF0KOU0D() (function in
            DISEASE.SPR)
          —_QSF0KOU3P() (function in
            DISEASE.SPR)
          —_QSF0KOUMI() (function in
            DISEASE.SPR)
          —_QSF0KOUQK() (function in
            DISEASE.SPR)
        —DICT.SPR
          —SETENUM (procedure in DICT.SPR)
          —_QSF0KPY4X() (funct in DICT.SPR)
          —_QSF0KPY8W() (funct in DICT.SPR)
            —EDENUM (procedure in
              DICT.SPR)
              —ENUM.SPR
                —_QSF0KPJAM()
                  (function in
                  ENUM.SPR)
                —_QSF0KPJF7()
                  (function in ENUM.SPR)
                —_QSF0KPJJK()
                  (function in ENUM.SPR)
                —_QSF0KPJYY()
                  (function in ENUM.SPR)
                —_QSF0KPK3S()
                  (function in ENUM.SPR)
                —_QSF0KPK8E()
                  (function in ENUM.SPR)
              —SETENUM. (procedure
                in DICT.SPR)
              —DDENUM.SPR
                —_QSF0KQ9MB()
                  (funct in DDENUM.SPR)
                —_QSF0KQ9QC()
                  (funct in DDENUM.SPR)
                —_QSF0KPYF6() (funct in DICT.SPR)
                —_QSF0KPYJ0() (funct in DICT.SPR)
          —_QSF0KOMRX() (function in QUAL.SPR)
          —EDQUAL...    (procedure in KB.SPR)
          —QSF0KON7E() (function in QUAL.SPR)
            —OBJECT.SPR
              —_QSF0KPF1() (function in OBJECT.SPR)
              —_QSF0KPFV8() (function in OBJECT.SPR)
              —GETOBJ() (function in OBJECT.SPR)
                —CREATARRAY() (function in
                  OBJECT.SPR)
                —SELITEM() (funct in OBJECT.SPR)
                  —OBLIST.SPR

```

```

      _QSF0KQ4M3() (funct in
                    OBLIST.SPR)
      DISEASE.SPR...
      DICT.SPR...
      _QSF0KPFYY() (function in OBJECT.SPR)
      _QSF0KPG47() (function in OBJECT.SPR)
      _CREATARRAY() ... (funct in OBJECT.SPR)
      _SELITEM() ... (funct in OBJECT.SPR)
      _QSF0KPGOJ() (function in OBJECT.SPR)
      _QSF0KPGSR() (function in OBJECT.SPR)
      _GETOBJ() ... (function in OBJECT.SPR)
      _QSF0KPGVZ() (function in OBJECT.SPR)
      _QSF0KPH17() (function in OBJECT.SPR)
      _CREATARRAY() ... (funct in OBJECT.SPR)
      _SELITEM() ... (funct in OBJECT.SPR)
      SETQUALS... (procedure in KB.SPR)
      VALIDOBJ() (function in QUAL.SPR)
      _ERRMSG.PRG...
      _QUALDEL() (function in QUAL.SPR)
      _POPUPSHOW() ... (function in KBINIT.PRG)
      _POPUPHIDE() ... (function in KBINIT.PRG)
      SETQUALS... (procedure in KB.SPR)
      _QSF0KONBU() (function in QUAL.SPR)
      _EDQUAL... (procedure in KB.SPR)
      GOAL.SPR
      _QSF0KOPCM() (function in GOAL.SPR)
      _EDGOAL (procedure in KB.SPR)
      _EDOBJ() ... (function in KB.SPR)
      _QSF0KOPG7() (function in GOAL.SPR)
      _EDGOAL... (procedure in KB.SPR)
      _QSF0KOPTK() (function in GOAL.SPR)
      _OBJECT.SPR...
      SETGOALS... (procedure in KB.SPR)
      _QSF0KOPXH() (function in GOAL.SPR)
      _EDGOAL... (procedure in KB.SPR)
      DISPLAY.SPR
      _QSF0KORJ1() (function in DISPLAY.SPR)
      _EDDISPLAY (procedure in KB.SPR)
      _EDOBJ() ... (function in KB.SPR)
      _QSF0KORMJ() (function in DISPLAY.SPR)
      _EDDISPLAY... (procedure in KB.SPR)
      _QSF0KORZX() (function in DISPLAY.SPR)
      _QSF0KOS30() (function in DISPLAY.SPR)
      _QSF0KOS6A() (function in DISPLAY.SPR)
      _EDDISPLAY... (procedure in KB.SPR)
      SETQUALS... (procedure in KB.SPR)
      SETGOALS... (procedure in KB.SPR)
      SETDISPLAY... (procedure in KB.SPR)
      _QSF0KOGFV() (function in KB.SPR)
      _QSF0KOGIH() (function in KB.SPR)
      _QSF0KOH4Z() (function in KB.SPR)
      KBLOAD.SPR...
      KBDEL.SPR...
      DISPLAY.SPR...
      KB.SPR...
      RULE.SPR...
      QUAL.SPR...

```

```

      GOAL.SPR...
      SETPREM...    (procedure in KBEDIT.SPR)
      SETACT...     (procedure in KBEDIT.SPR)
      SETQUALS...   (procedure in KB.SPR)
      SETGOALS...   (procedure in KB.SPR)
      SETDISPLAY... (procedure in KB.SPR)
      _QSF0KOHJ1()  (function in KB.SPR)
      _QSF0KOHM5()  (function in KB.SPR)
      _QSF0KOHPT()  (function in KB.SPR)
      DD.SPR
      _QSF0KPT2I()  (function in DD.SPR)
      DEDIT.SPR
      SETRULES()    (function in DEDIT.SPR)
      AREANAME()    (function in DEDIT.SPR)
      SETENUM...    (procedure in DICT.SPR)
      _QSF0KQ6M1()  (function in DEDIT.SPR)
      SETVAL        (procedure in DICT.SPR)
      SETENUM...    (procedure in DICT.SPR)
      DDENUM.SPR...
      _QSF0KQ6T0()  (function in DEDIT.SPR)
      EDENUM...     (procedure in DICT.SPR)
      _QSF0KQ6YY()  (function in DEDIT.SPR)
      CLEANENUM()   (function in DEDIT.SPR)
      _QSF0KQ74F()  (function in DEDIT.SPR)
      VALIDOBJ() ... (function in QUAL.SPR)
      QUALDEL() ... (function in QUAL.SPR)
      RESETDATA()   (function in DD.SPR)
      _QSF0KPT7D()  (function in DD.SPR)
      DEDIT.SPR...
      MYHANDLER()   (function in KBINIT.PRG)

```

Section VI. Procedure and Function Summary. The system contains 24 procedure files: KBINIT.PRG, KBLOAD.SPR, KB.SPR, KBDEL.SPR, QUAL.SPR, GOAL.SPR, DISPLAY.SPR, DISEASE.SPR, ACTION.SPR, ACTELSE.SPR, CLAUSE.SPR, RULE.SPR, TERM.SPR, OBJECT.SPR, ENUM.SPR, RESTORE.SPR, DD.SPR, PLAN.SPR, DICT.SPR, KBEDIT.SPR, OBLIST.SPR, DDEDIT.SPR, DDENUM.SPR, and BACKUP.SPR

1. KBINIT.PRG

Contains: MYHANDLER()	(Params: none)
Called by: KBINIT.PRG	
Contains: _QUIT()	(Params: none)
Called by: KBMENU.MPR	
Calls: ERRMSG.PRG	
Contains: POPUPSHOW()	(Params: ERRSTR)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: POPUPHIDE()	(Params: W)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: SETPATH()	(Params: NEWPATH)
Called by: KBINIT.PRG	

2. KBLOAD.SPR

Contains: _QSF0KQBNK()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQBT0()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQC1J()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQC42()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQC6T()	(Params: none)
Called by: KBLOAD.SPR	
Calls: CHECKFILE()	(function in KBLOAD.SPR)
Calls: POPUPSHOW()	(function in KBINIT.PRG)
Calls: KBLDR.PRG	
Calls: POPUPHIDE()	(function in KBINIT.PRG)
Contains: _QSF0KQCP2()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCRO()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCUA()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCWT()	(Params: none)
Called by: KBLOAD.SPR	
Calls: LOADOK	(procedure in KBLOAD.SPR)
Contains: _QSF0KQCZG()	(Params: none)


```

    Called by: KBLOAD.SPR
    Calls: KBLDR.PRG
Contains: LOADOK
    Called by: KBLOAD.SPR
    Called by: _QSF0KQBNK()
    Called by: _QSF0KQBT0()
    Called by: _QSF0KQC1J()
    Called by: _QSF0KQC42()
    Called by: _QSF0KQCP2()
    Called by: _QSF0KQCRO()
    Called by: _QSF0KQCUA()
    Called by: _QSF0KQCW()
Contains: CHECKFILE()
    Called by: _QSF0KQC6T()
    Calls: YESNO.PRG

```

```

(Params: none)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(function in KBLOAD.SPR)
(Params: M.NEW)
(function in KBLOAD.SPR)

```

3. KB.SPR

```

Contains: _QSF0KOFX9()
    Called by: KB.SPR
    Calls: KBLOAD.SPR
    Calls: KBEDIT.SPR
    Calls: KBDEL.SPR
    Calls: SETQUALS
    Calls: SETGOALS
    Calls: SETDISPLAY
Contains: _QSF0KOG2M()
    Called by: KB.SPR
    Calls: QUAL.SPR
    Calls: GOAL.SPR
    Calls: DISPLAY.SPR
    Calls: SETQUALS
    Calls: SETGOALS
    Calls: SETDISPLAY
Contains: _QSF0KOGFV()
    Called by: KB.SPR
Contains: _QSF0KOGIH()
    Called by: KB.SPR
Contains: _QSF0KOH4Z()
    Called by: KB.SPR
    Calls: KBLOAD.SPR
    Calls: KBDEL.SPR
    Calls: DISPLAY.SPR
    Calls: KB.SPR
    Calls: RULE.SPR
    Calls: QUAL.SPR
    Calls: GOAL.SPR
    Calls: SETPREM
    Calls: SETACT
    Calls: SETQUALS
    Calls: SETGOALS
    Calls: SETDISPLAY
Contains: _QSF0KOHJ1()
    Called by: KB.SPR
Contains: _QSF0KOHM5()
    Called by: KB.SPR
Contains: _QSF0KOHPT()

```

```

(Params: none)
(procedure in KB.SPR)
(procedure in KB.SPR)
(procedure in KB.SPR)
(Params: none)
(procedure in KB.SPR)
(procedure in KB.SPR)
(procedure in KB.SPR)
(Params: none)
(Params: none)
(Params: none)
(procedure in KBEDIT.SPR)
(procedure in KBEDIT.SPR)
(procedure in KB.SPR)
(procedure in KB.SPR)
(procedure in KB.SPR)
(Params: none)
(Params: none)
(Params: none)

```

Called by: KB.SPR	
Contains: SETQUALS	(Params: none)
Called by: KB.SPR	
Called by: _QSF0KOFX9()	(function in KB.SPR)
Called by: _QSF0KOG2M()	(function in KB.SPR)
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: QUALDEL()	(function in QUAL.SPR)
Contains: SETGOALS	(Params: none)
Called by: KB.SPR	
Called by: _QSF0KOFX9()	(function in KB.SPR)
Called by: _QSF0KOG2M()	(function in KB.SPR)
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: _QSF0KOPTK()	(function in GOAL.SPR)
Called by: _QSF0KPV8R()	(function in PLAN.SPR)
Called by: _QSF0KPVQB()	(function in PLAN.SPR)
Contains: SETDISPLAY	(Params: none)
Called by: KB.SPR	
Called by: _QSF0KOFX9()	(function in KB.SPR)
Called by: _QSF0KOG2M()	(function in KB.SPR)
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Contains: EDGOAL	(Params: none)
Called by: _QSF0KOPCM()	(function in GOAL.SPR)
Called by: _QSF0KOPG7()	(function in GOAL.SPR)
Called by: _QSF0KOPXH()	(function in GOAL.SPR)
Called by: _QSF0KPVCR()	(function in PLAN.SPR)
Called by: _QSF0KPVW8()	(function in PLAN.SPR)
Calls: EDOBJ()	(function in KB.SPR)
Contains: EDQUAL	(Params: none)
Called by: _QSF0KOMJF()	(function in QUAL.SPR)
Called by: _QSF0KOMRX()	(function in QUAL.SPR)
Called by: _QSF0KONBU()	(function in QUAL.SPR)
Calls: EDOBJ()	(function in KB.SPR)
Contains: EDDISPLAY	(Params: none)
Called by: _QSF0KORJ1()	(function in DISPLAY.SPR)
Called by: _QSF0KORMJ()	(function in DISPLAY.SPR)
Called by: _QSF0KOS6A()	(function in DISPLAY.SPR)
Calls: EDOBJ()	(function in KB.SPR)
Contains: EDOBJ()	(Params: MOBJ, MID)
Called by: EDGOAL	(procedure in KB.SPR)
Called by: EDQUAL	(procedure in KB.SPR)
Called by: EDDISPLAY	(procedure in KB.SPR)
Calls: DISEASE.SPR	
Calls: DICT.SPR	

4. KBDEL.SPR

Contains: _QSF0KKEU()	(Params: none)
Called by: KBDEL.SPR	
Calls: KBDELETE.PRG	
Contains: _QSF0KOKPT()	(Params: none)
Called by: KBDEL.SPR	
Calls: KBDELETE.PRG	

5. QUAL.SPR

Contains: _QSF0KOMJF()	(Params: none)
------------------------	----------------

Called by: QUAL.SPR	
Calls: EDQUAL	(procedure in KB.SPR)
Contains: _QSF0KOMRX()	(Params: none)
Called by: QUAL.SPR	
Calls: EDQUAL	(procedure in KB.SPR)
Contains: _QSF0KON7E()	(Params: none)
Called by: QUAL.SPR	
Calls: OBJECT.SPR	
Calls: SETQUALS	(procedure in KB.SPR)
Calls: VALIDOBJ()	(function in QUAL.SPR)
Calls: QUALDEL()	(function in QUAL.SPR)
Contains: _QSF0KONBU()	(Params: none)
Called by: QUAL.SPR	
Calls: EDQUAL	(procedure in KB.SPR)
Contains: POPUPSHOW()	(Params: ERRSTR)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: POPUPHIDE()	(Params: W)
Called by: QUALDEL()	(function in QUAL.SPR)
Called by: _QSF0KQC6T()	(function in KBLOAD.SPR)
Contains: VALIDOBJ()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: ERRMSG.PRG	
Contains: QUALDEL()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: POPUPSHOW()	(function in KBINIT.PRG)
Calls: POPUPHIDE()	(function in KBINIT.PRG)
Calls: SETQUALS	(procedure in KB.SPR)

6. GOAL.SPR

Contains: _QSF0KOPCM()	(Params: none)
Called by: GOAL.SPR	
Calls: EDGOAL	(procedure in KB.SPR)
Contains: _QSF0KOPG7()	(Params: none)
Called by: GOAL.SPR	
Calls: EDGOAL	(procedure in KB.SPR)
Contains: _QSF0KOPTK()	(Params: none)
Called by: GOAL.SPR	
Calls: OBJECT.SPR	
Calls: SETGOALS	(procedure in KB.SPR)
Contains: _QSF0KOPXH()	(Params: none)
Called by: GOAL.SPR	
Calls: EDGOAL	(procedure in KB.SPR)

7. DISPLAY.SPR

Contains: _QSF0KORJ1()	(Params: none)
Called by: DISPLAY.SPR	
Calls: EDDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KORMJ()	(Params: none)
Called by: DISPLAY.SPR	
Calls: EDDISPLAY	(procedure in KB.SPR)
Contains: _QSF0KORZX()	(Params: none)
Called by: DISPLAY.SPR	

Contains: _QSF0KOS30()	(Params: none)
Called by: DISPLAY.SPR	
Contains: _QSF0KOS6A()	(Params: none)
Called by: DISPLAY.SPR	
Calls: EDDISPLAY	(procedure in KB.SPR)

8. DISEASE.SPR

Contains: _QSF0KOU0D()	(Params: none)
Called by: DISEASE.SPR	
Contains: _QSF0KOU3P()	(Params: none)
Called by: DISEASE.SPR	
Contains: _QSF0KOU0MI()	(Params: none)
Called by: DISEASE.SPR	
Contains: _QSF0KOUQK()	(Params: none)
Called by: DISEASE.SPR	

9. ACTION.SPR

Contains: _QSF0KOX5V()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: _QSF0KOX9D()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: _QSF0KOXVA()	(Params: none)
Called by: ACTION.SPR	
Contains: _QSF0KOY5O()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: _QSF0KOY8A()	(Params: none)
Called by: ACTION.SPR	
Calls: CLAUSE.SPR	
Calls: SETACT	(procedure in KBEDIT.SPR)
Contains: _QSF0KOYCP()	(Params: none)
Called by: ACTION.SPR	
Calls: EDACT	(procedure in ACTION.SPR)
Contains: EDACT	(Params: none)
Called by: _QSF0KOX5V()	(function in ACTION.SPR)
Called by: _QSF0KOX9D()	(function in ACTION.SPR)
Called by: _QSF0KOY5O()	(function in ACTION.SPR)
Called by: _QSF0KOYCP()	(function in ACTION.SPR)
Calls: CLAUSE.SPR	
Calls: SETACT	(procedure in KBEDIT.SPR)
Contains: ADDNEWACT()	(Params: none)
Called by: ACTION.SPR	
Calls: CLAUSE.SPR	
Calls: SETACT	(procedure in KBEDIT.SPR)

10. ACTELSE.SPR

Contains: _QSF0KP07D()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)
Contains: _QSF0KP0AR()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)

Contains: _QSF0KP0S3()	(Params: none)
Called by: ACTELSE.SPR	
Contains: _QSF0KP0W3()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)
Contains: _QSF0KP0YP()	(Params: none)
Called by: ACTELSE.SPR	
Calls: ADDNEWELSE()	(function in ACTELSE.SPR)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: _QSF0KP13M()	(Params: none)
Called by: ACTELSE.SPR	
Calls: EDELSE	(procedure in ACTELSE.SPR)
Contains: EDELSE	(Params: none)
Called by: _QSF0KP07D()	(function in ACTELSE.SPR)
Called by: _QSF0KP0AR()	(function in ACTELSE.SPR)
Called by: _QSF0KP0W3()	(function in ACTELSE.SPR)
Called by: _QSF0KP13M()	(function in ACTELSE.SPR)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: ADDELSE	(Params: none)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: ADDNEWELSE()	(Params: none)
Called by: ACTELSE.SPR	
Called by: _QSF0KP0YP()	(function in ACTELSE.SPR)
Calls: CLAUSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)

11. CLAUSE.SPR

Contains: _QSF0KP3SZ()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP3X2()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP435()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP472()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5HS()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5LZ()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5Q1()	(Params: none)
Called by: CLAUSE.SPR	
Contains: _QSF0KP5UC()	(Params: none)
Called by: CLAUSE.SPR	
Contains: INSNEWID()	(Params: MDATA, MITEM)
Called by: CLAUSE.SPR	
Calls: DP.PRG	
Contains: SETOBJECT()	(Params: M.OBJECT, MTYPE)
Called by: CLAUSE.SPR	

12. RULE.SPR

Contains: _QSF0KP97Y()	(Params: none)
Called by: RULE.SPR	

Contains: _QSF0KPA3B()	(Params: none)
Called by: RULE.SPR	
Contains: _QSF0KPA7J()	(Params: none)
Called by: RULE.SPR	
Calls: YESNO.PRG	

13. TERM.SPR

Contains: _QSF0KPC3R()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: _QSF0KPC6D()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: _QSF0KPCPM()	(Params: none)
Called by: TERM.SPR	
Contains: _QSF0KPCU9()	(Params: none)
Called by: TERM.SPR	
Calls: SETJOIN()	(function in TERM.SPR)
Contains: _QSF0KPCWU()	(Params: none)
Called by: TERM.SPR	
Calls: SETJOIN()	(function in TERM.SPR)
Contains: _QSF0KPCZG()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: _QSF0KPD1Z()	(Params: none)
Called by: TERM.SPR	
Calls: ADDFACT()	(function in TERM.SPR)
Contains: _QSF0KPD51()	(Params: none)
Called by: TERM.SPR	
Calls: EDPREM	(procedure in TERM.SPR)
Contains: EDPREM	(Params: none)
Called by: _QSF0KPC3R()	(function in TERM.SPR)
Called by: _QSF0KPC6D()	(function in TERM.SPR)
Called by: _QSF0KPCZG()	(function in TERM.SPR)
Called by: _QSF0KPD51()	(function in TERM.SPR)
Calls: CLAUSE.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Contains: SETJOIN()	(Params: JOINOP)
Called by: _QSF0KPCU9()	(function in TERM.SPR)
Called by: _QSF0KPCWU()	(function in TERM.SPR)
Calls: SETPREM	(procedure in KBEDIT.SPR)
Contains: LASTFACT()	(Params: none)
Contains: ADDFACT()	(Params: none)
Called by: TERM.SPR	
Called by: _QSF0KPD1Z()	(function in TERM.SPR)
Calls: CLAUSE.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)

14. OBJECT.SPR

Contains: _QSF0KPF1R()	(Params: none)
Called by: OBJECT.SPR	
Contains: _QSF0KPFV8()	(Params: none)
Called by: OBJECT.SPR	
Calls: GETOBJ()	(function in OBJECT.SPR)
Contains: _QSF0KPFYY()	(Params: none)

Called by: OBJECT.SPR	
Contains: _QSF0KPG47()	(Params: none)
Called by: OBJECT.SPR	
Calls: CREATARRAY()	(function in OBJECT.SPR)
Calls: SELITEM()	(function in OBJECT.SPR)
Contains: _QSF0KPGQJ()	(Params: none)
Called by: OBJECT.SPR	
Contains: _QSF0KPGSR()	(Params: none)
Called by: OBJECT.SPR	
Calls: GETOBJ()	(function in OBJECT.SPR)
Contains: _QSF0KPGVZ()	(Params: none)
Called by: OBJECT.SPR	
Contains: _QSF0KPH17()	(Params: none)
Called by: OBJECT.SPR	
Calls: CREATARRAY()	(function in OBJECT.SPR)
Calls: SELITEM()	(function in OBJECT.SPR)
Contains: CREATARRAY()	(Params: none)
Called by: _QSF0KPG47()	(function in OBJECT.SPR)
Called by: _QSF0KPH17()	(function in OBJECT.SPR)
Called by: GETOBJ()	(function in OBJECT.SPR)
Contains: DATAINPUT()	(Params: none)
Calls: DISEASE.SPR	
Calls: DICT.SPR	
Contains: GETOBJ()	(Params: M.NAME)
Called by: _QSF0KPFV8()	(function in OBJECT.SPR)
Called by: _QSF0KPGSR()	(function in OBJECT.SPR)
Calls: CREATARRAY()	(function in OBJECT.SPR)
Calls: SELITEM()	(function in OBJECT.SPR)
Contains: SELITEM()	(Params: none)
Called by: _QSF0KPG47()	(function in OBJECT.SPR)
Called by: _QSF0KPH17()	(function in OBJECT.SPR)
Called by: GETOBJ()	(function in OBJECT.SPR)
Calls: OBLIST.SPR	
Calls: DISEASE.SPR	
Calls: DICT.SPR	

15. ENUM.SPR

Contains: _QSF0KPJAM()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPJF7()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPJJK()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPJYY()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPK3S()	(Params: none)
Called by: ENUM.SPR	
Contains: _QSF0KPK8E()	(Params: none)
Called by: ENUM.SPR	

16. RESTORE.SPR

Contains: _QSF0KPMPZ()	(Params: none)
Called by: RESTORE.SPR	
Contains: _QSF0KPMS0()	(Params: none)
Called by: RESTORE.SPR	

Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPMXI()	(Params: none)
Called by: RESTORE.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPN0J()	(Params: none)
Called by: RESTORE.SPR	
Calls: PKUNZIP	(procedure in RESTORE.SPR)
Contains: _QSF0KPN3T()	(Params: none)
Called by: RESTORE.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPN7E()	(Params: none)
Called by: RESTORE.SPR	
Contains: _QSF0KPNY5()	(Params: none)
Called by: RESTORE.SPR	
Contains: _QSF0KPO0A()	(Params: none)
Called by: RESTORE.SPR	
Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPO5T()	(Params: none)
Called by: RESTORE.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPO8T()	(Params: none)
Called by: RESTORE.SPR	
Calls: PKUNZIP	(procedure in RESTORE.SPR)
Contains: _QSF0KPOBY()	(Params: none)
Called by: RESTORE.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KPOFG()	(Params: none)
Called by: RESTORE.SPR	
Contains: NEWDRIVEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Contains: NEWPATHPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KO9LV()	(function in BACKUP.SPR)
Called by: _QSF0KO0AID()	(function in BACKUP.SPR)
Called by: _QSF0KO0ANU()	(function in BACKUP.SPR)
Called by: _QSF0KO0AUY()	(function in BACKUP.SPR)
Called by: _QSF0KPMS0()	(function in RESTORE.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPN3T()	(function in RESTORE.SPR)
Called by: _QSF0KPO0A()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: NEWFILEPOP	(Params: none)

Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KO9LV()	(function in BACKUP.SPR)
Called by: _QSF0KO9AID()	(function in BACKUP.SPR)
Called by: _QSF0KO9ANU()	(function in BACKUP.SPR)
Called by: _QSF0KO9AUY()	(function in BACKUP.SPR)
Called by: _QSF0KPMS0()	(function in RESTORE.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPN3T()	(function in RESTORE.SPR)
Called by: _QSF0KPO0A()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: PATHSTRING	(Params: none)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KO9ANU()	(function in BACKUP.SPR)
Called by: PKZIP	(procedure in BACKUP.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: PKUNZIP	(procedure in RESTORE.SPR)
Contains: PKUNZIP	(Params: none)
Called by: _QSF0KPN0J()	(function in RESTORE.SPR)
Called by: _QSF0KPO8T()	(function in RESTORE.SPR)
Calls: PATHSTRING	(procedure in BACKUP.SPR)

17. DD.SPR

Contains: VALIDOBJ()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: ERRMSG.PRG	
Contains: QUALDEL()	(Params: none)
Called by: _QSF0KON7E()	(function in QUAL.SPR)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Calls: POPUPSHOW()	(function in KBINIT.PRG)
Calls: POPUPHIDE()	(function in KBINIT.PRG)
Calls: SETQUALS	(procedure in KB.SPR)
Contains: RESETDATA()	(Params: none)
Called by: _QSF0KPT2I()	(function in DD.SPR)
Contains: _QSF0KPT2I()	(Params: none)
Called by: DD.SPR	
Calls: DDEDIT.SPR	
Calls: VALIDOBJ()	(function in QUAL.SPR)
Calls: QUALDEL()	(function in QUAL.SPR)
Calls: RESETDATA()	(function in DD.SPR)
Contains: _QSF0KPT7D()	(Params: none)
Called by: DD.SPR	
Calls: DDEDIT.SPR	

18. PLAN.SPR

Contains: _QSF0KPV8R()	(Params: none)
Called by: PLAN.SPR	
Calls: OBJECT.SPR	
Calls: SETGOALS	(procedure in KB.SPR)

Contains: _QSF0KPVCR()	(Params: none)
Called by: PLAN.SPR	
Calls: EDGOAL	(procedure in KB.SPR)
Contains: _QSF0KPVQB()	(Params: none)
Called by: PLAN.SPR	
Calls: OBJECT.SPR	
Calls: SETGOALS	(procedure in KB.SPR)
Contains: _QSF0KPVW8()	(Params: none)
Called by: PLAN.SPR	
Calls: EDGOAL	(procedure in KB.SPR)

19. DICT.SPR

Contains: EDENUM	(Params: none)
Called by: _QSF0KPY8W()	(function in DICT.SPR)
Called by: _QSF0KQ6T0()	(function in DEDIT.SPR)
Calls: ENUM.SPR	
Calls: SETENUM	(procedure in DICT.SPR)
Calls: DDENUM.SPR	
Contains: SETENUM	(Params: none)
Called by: DICT.SPR	
Called by: DEDIT.SPR	
Called by: EDENUM	(procedure in DICT.SPR)
Called by: _QSF0KQ6M1()	(function in DEDIT.SPR)
Contains: SETVAL	(Params: none)
Called by: _QSF0KQ6M1()	(function in DEDIT.SPR)
Contains: _QSF0KPY4X()	(Params: none)
Called by: DICT.SPR	
Contains: _QSF0KPY8W()	(Params: none)
Called by: DICT.SPR	
Calls: EDENUM	(procedure in DICT.SPR)
Contains: _QSF0KPYF6()	(Params: none)
Called by: DICT.SPR	
Contains: _QSF0KPYJ0()	(Params: none)
Called by: DICT.SPR	

20. KBEDIT.SPR

Contains: SETPREM	(Params: none)
Called by: KBEDIT.SPR	
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: ADDFACT()	(function in TERM.SPR)
Called by: EDPREM	(procedure in TERM.SPR)
Called by: SETJOIN()	(function in TERM.SPR)
Called by: _QSF0KQ0SA()	(function in KBEDIT.SPR)
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Calls: EMPTY()	(function in KBEDIT.SPR)
Calls: HLINK()	(function in KBEDIT.SPR)
Calls: VLINK()	(function in KBEDIT.SPR)
Contains: VLINK()	(Params: FROM, TO)
Called by: SETPREM	(procedure in KBEDIT.SPR)
Contains: HLINK()	(Params: S)
Called by: SETPREM	(procedure in KBEDIT.SPR)
Contains: PUSH()	(Params: N)
Contains: POP()	(Params: none)
Contains: EMPTY()	(Params: none)
Called by: SETPREM	(procedure in KBEDIT.SPR)

Contains: SETACT	(Params: none)
Called by: KBEDIT.SPR	
Called by: _QSF0KOH4Z()	(function in KB.SPR)
Called by: ADDNEWACT()	(function in ACTION.SPR)
Called by: _QSF0KOY8A()	(function in ACTION.SPR)
Called by: EDACT	(procedure in ACTION.SPR)
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Contains: SETELSE	(Params: none)
Called by: KBEDIT.SPR	
Called by: ADDNEWELSE()	(function in ACTELSE.SPR)
Called by: _QSF0KP0YP()	(function in ACTELSE.SPR)
Called by: EDELSE	(procedure in ACTELSE.SPR)
Called by: ADDELSE	(procedure in ACTELSE.SPR)
Called by: _QSF0KQ10R()	(function in KBEDIT.SPR)
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Contains: SETACTION()	(Params: none)
Called by: KBEDIT.SPR	
Called by: _QSF0KQ14Z()	(function in KBEDIT.SPR)
Contains: _QSF0KQ0SA()	(Params: none)
Called by: KBEDIT.SPR	
Calls: TERM.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Contains: _QSF0KQ0WK()	(Params: none)
Called by: KBEDIT.SPR	
Calls: ACTION.SPR	
Contains: _QSF0KQ10R()	(Params: none)
Called by: KBEDIT.SPR	
Calls: ACTELSE.SPR	
Calls: SETELSE	(procedure in KBEDIT.SPR)
Contains: _QSF0KQ14Z()	(Params: none)
Called by: KBEDIT.SPR	
Calls: RULE.SPR	
Calls: SETPREM	(procedure in KBEDIT.SPR)
Calls: SETACT	(procedure in KBEDIT.SPR)
Calls: SETELSE	(procedure in KBEDIT.SPR)
Calls: SETACTION()	(function in KBEDIT.SPR)

21. OBLIST.SPR

Contains: _QSF0KQ4M3()	(Params: none)
Called by: OBLIST.SPR	

22. DDEDIT.SPR

Contains: SETRULES()	(Params: none)
Called by: DDEDIT.SPR	
Calls: AREANAME()	(function in DDEDIT.SPR)
Contains: EDENUM	(Params: none)
Called by: _QSF0KPY8W()	(function in DICT.SPR)
Called by: _QSF0KQ6T0()	(function in DDEDIT.SPR)
Calls: ENUM.SPR	
Calls: SETENUM	(procedure in DICT.SPR)
Calls: DDENUM.SPR	
Contains: SETENUM	(Params: none)
Called by: DICT.SPR	
Called by: DDEDIT.SPR	
Called by: EDENUM	(procedure in DICT.SPR)

Called by: _QSF0KQ6M1()	(function in DDEDIT.SPR)
Contains: SETVAL	(Params: none)
Called by: _QSF0KQ6M1()	(function in DDEDIT.SPR)
Contains: CLEANENUM()	(Params: none)
Called by: _QSF0KQ6YY()	(function in DDEDIT.SPR)
Contains: AREANAME()	(Params: MID)
Called by: SETRULES()	(function in DDEDIT.SPR)
Contains: _QSF0KQ6M1()	(Params: none)
Called by: DDEDIT.SPR	
Calls: SETVAL	(procedure in DICT.SPR)
Calls: SETENUM	(procedure in DICT.SPR)
Calls: DDENUM.SPR	
Contains: _QSF0KQ6T0()	(Params: none)
Called by: DDEDIT.SPR	
Calls: EDENUM	(procedure in DICT.SPR)
Contains: _QSF0KQ6YY()	(Params: none)
Called by: DDEDIT.SPR	
Calls: CLEANENUM()	(function in DDEDIT.SPR)
Contains: _QSF0KQ74F()	(Params: none)
Called by: DDEDIT.SPR	

23. DDENUM.SPR

Contains: _QSF0KQ9MB()	(Params: none)
Called by: DDENUM.SPR	
Contains: _QSF0KQ9QC()	(Params: none)
Called by: DDENUM.SPR	

24. BACKUP.SPR

Contains: _QSF0KO96C()	(Params: none)
Called by: BACKUP.SPR	
Contains: _QSF0KO98Q()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KO9EC()	(Params: none)
Called by: BACKUP.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KO9HK()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: PKZIP	(procedure in BACKUP.SPR)
Contains: _QSF0KO9LV()	(Params: none)
Called by: BACKUP.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAG9()	(Params: none)
Called by: BACKUP.SPR	
Contains: _QSF0KOAID()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)

Contains: _QSF0KOANU()	(Params: none)
Called by: BACKUP.SPR	
Calls: PATHSTRING	(procedure in BACKUP.SPR)
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAQV()	(Params: none)
Called by: BACKUP.SPR	
Calls: YESNO.PRG	
Calls: PKZIP	(procedure in BACKUP.SPR)
Contains: _QSF0KOAUY()	(Params: none)
Called by: BACKUP.SPR	
Calls: NEWPATHPOP	(procedure in BACKUP.SPR)
Calls: NEWFILEPOP	(procedure in BACKUP.SPR)
Contains: NEWDRIVEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Contains: NEWPATHPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QS*	(function in BACKUP.SPR)
Contains: NEWFILEPOP	(Params: none)
Called by: BACKUP.SPR	
Called by: RESTORE.SPR	
Called by: _QSF0KO98Q()	(function in BACKUP.SPR)
Called by: _QSF0KOAUY()	(function in BACKUP.SPR)
Called by: _QSF0KPOBY()	(function in RESTORE.SPR)
Contains: PATHSTRING	(Params: none)
Called by: _QSF0KO9EC()	(function in BACKUP.SPR)
Called by: _QSF0KOANU()	(function in BACKUP.SPR)
Called by: PKZIP	(procedure in BACKUP.SPR)
Called by: _QSF0KPMXI()	(function in RESTORE.SPR)
Called by: _QSF0KPO5T()	(function in RESTORE.SPR)
Called by: PKUNZIP	(procedure RESTORE.SPR)
Contains: PKZIP	(Params: none)
Called by: _QSF0KO9HK()	(function in BACKUP.SPR)
Called by: _QSF0KOAQV()	(function in BACKUP.SPR)
Calls: PATHSTRING	(procedure in BACKUP.SPR)

Section VII. Program Source Code


```

122: *!
123: *!      Calls: ERRMSG.PRg
124: *!
125: *!*****
=> *****
126: FUNCTION quit
127: IF EMPTY(_WOUTPUT())
128:   dropdead = .T.
129:   CLEAR READ ALL
130: ELSE
131:   =errmsg("Close windows before quitting",1)
132: ENDIF
133: RETURN
134:
135: *-----
136: *
137: * display popup notice
138: *
139: *-----
140:
141: *!*****
=> *****
142: *!
143: *!      Function: POPUPSHOW
144: *!
145: *!      Called by: QUALDEL()      (function in QUAL.SPR)
146: *!      : _QSFOKQC6T()      (function in KBLOAD.SPR)
147: *!
148: *!*****
=> *****
149: FUNCTION popupshow
150: PARAMETERS errstr
151: IF NOT WEXIST("w_popnote")
152:   DEFINE WINDOW w_popnote
153:   FROM INT((SROW()-8)/2), INT((SCOL()-36)/2)
154:   TO INT((SROW()-8)/2)+7, INT((SCOL()-36)/2)+35
155:   TITLE "One moment"
156:   FLOAT
157:   CLOSE
158:   SHADOW
159:   DOUBLE
160:   COLOR SCHEME 1
161: ENDIF
162: IF WVISIBLE("w_popnote")
163:   ACTIVATE WINDOW w_popnote SAME
164: ELSE
165:   ACTIVATE WINDOW w_popnote NOSHOWN
166: ENDIF
167: @ 1,1 SAY errstr SIZE 3,31
168:
169: IF NOT WVISIBLE("w_popnote")
170:   ACTIVATE WINDOW w_popnote
171: ENDIF
172: RETURN ""
173:
174: *!*****
=> *****
175: *!
176: *!      Function: POPUPHIDE
177: *!
178: *!      Called by: QUALDEL()      (function in QUAL.SPR)
179: *!      : _QSFOKQC6T()      (function in KBLOAD.SPR)
180: *!
181: *!*****
=> *****
182: FUNCTION popuphide

```

```

183: *!
184: *!      RELEASE WINDOW w_popnote
185: *!      RETURN
186: *!
187: *!*****
=> *****
188: *!
189: *!      * Quit out the system
190: *!
191: *!      CLOSE DATABASES
192: *!      *set default to (m.home)
193: *!
194: *!      * Creat foxpro path
195: *!
196: *!*****
=> *****
197: *!
198: *!      Function: SETPATH
199: *!
200: *!      Called by: KBINIT.PRg
201: *!
202: *!*****
=> *****
203: FUNCTION setpath
204: PARAMETER mnewpath
205: PRIVATE mnewpath
206: IF EMPTY(mnewpath)
207:   mnewpath = FULLPATH(newpath) + ";"
208:   mcurpath = IIF(EMPTY(SET("PATH")),FULLPATH(CURDIR())+";",SET("PATH")
209: => ")))
210: IF NOT mcurpath $ mnewpath
211:   mcurpath = mcurpath + mnewpath
212:   SET PATH TO (mcurpath)
213: ENDIF
214: RETURN .T.
215:
216: *-----
217: *
218: * EOF: KBINIT.act

```



```

1:  * *****
=> 2:  * Procedure file: C:\CAMD2\KBEDIT\WORK\YESNO.PRG
3:  * System: Knowledge Base Editor
4:  * Author: Hoa L. Ly
5:  * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
6:  *
=> 7:  * Last modified: 08/05/94 at 11:38:50
8:  *
9:  * Set by: QSF0K098Q() (function in BACKUP.SPR)
10:  * : QSF0K09HK() (function in BACKUP.SPR)
11:  * : QSF0K0AID() (function in BACKUP.SPR)
12:  * : QSF0K0AQV() (function in BACKUP.SPR)
13:  * : QSF0KPA7J() (function in RULE.SPR)
14:  * : QSF0KPM50() (function in RESTORE.SPR)
15:  * : QSF0KPO0A() (function in RESTORE.SPR)
16:  * : CHECKFILE() (function in KBLOAD.SPR)
17:  *
18:  * Documented 15:00:47 FoxDoc Versio
=> 19:  * 3.00a
20:  * *****
21:  * 11/26/91 YESNO.PRG 02:50:49
22:  *
23:  * *****
24:  *
25:  * Adam Green
26:  *
27:  * Copyright (c) 1991 Adam Green Seminars
28:  * One Faneuil Hall
29:  * Boston, MA 02174
30:  *
31:  * Description:
32:  * This program was automatically generated by GENSCRN.
33:  *
34:  * *****
35:  *
36:  * *****
37:  *
38:  * *****
39:  *
40:  * YESNO Setup Code - SECTION 1
41:  *
42:  * *****
43:  *
44:  *
45:  * #REGION 1
46:  * PARAMETERS MESSAGE, ok, CANCEL
47:  * PRIVATE ALL
48:  * HLL, If message was empty print a plain window just only need respon
=> 49:  *
50:  * IF PARAMETERS() = 0
51:  * * Default to plain prompts
52:  * m.message = ""
53:  * ENDIF
54:  *
55:  * OK and Cancel are used for prompts in the push buttons
56:  * IF PARAMETERS() = 1
57:  * * Default to normal prompts
58:  * m.ok = "OK"
59:  * m.cancel = "Cancel("
60:  * ENDIF
61:  *
62:  * Truncate any message longer than 50 characters

```

```

62:  * *****
63:  *
64:  * The message is centered in an @SAY
65:  * m.message = SUBSTR( m.message, 1, 129 )
66:  * ENDIF
67:  *
68:  * PUSH KEY CLEAR
69:  *
70:  * #REGION 0
71:  * REGIONAL m.curarea, m.talkstat, m.compstat
72:  *
73:  * IF SET("TALK") = "ON"
74:  * SET TALK OFF
75:  * m.talkstat = "ON"
76:  * ELSE
77:  * m.talkstat = "OFF"
78:  * ENDIF
79:  *
80:  * m.compstat = SET("COMPATIBLE")
81:  * SET COMPATIBLE FOXPLUS
82:  * *****
83:  *
84:  * ***** Window definitions *****
85:  *
86:  * *****
87:  *
88:  * *****
89:  *
90:  * IF NOT WEXIST("yesno")
91:  * DEFINE WINDOW yesno ;
92:  * AT 0,0 ;
93:  * SIZE 7,72 ;
94:  * FONT 'MS SANS SERIF', 8 ;
95:  * FLOAT ;
96:  * NOCLOSE ;
97:  * DOUBLE ;
98:  * MOVE WINDOW yesno CENTER
99:  * ENDIF
100:  * *****
101:  *
102:  * ***** YESNO Screen Layout *****
103:  *
104:  * *****
105:  *
106:  * *****
107:  *
108:  * #REGION 1
109:  * IF WVISIBLE("yesno")
110:  * ACTIVATE WINDOW yesno SAME
111:  * ELSE
112:  * ACTIVATE WINDOW yesno NOSHOW
113:  * ENDIF
114:  *
115:  * @ 1,2 SAY m.message ;
116:  * FONT 'MS Sans Serif', 8 ;
117:  * SIZE 2,65
118:  * @ 4,18 GET m.answer ;
119:  * PICTURE "a*HT \\\<OK;\<Cancel" ;
120:  * SIZE 1.5,11.4 ;
121:  * FONT 'MS Sans Serif', 8 ;
122:  * DEFAULT 1;
123:  * STYLE "B"
124:  *
125:  * IF NOT WVISIBLE("yesno")
126:  * ACTIVATE WINDOW yesno
127:  * ENDIF

```

```
128: READ CYCLE MODAL
129:
130: RELEASE WINDOW yesno
131:
132: #REGION 0
133: IF m.talkstat = "ON"
134: SET TALK ON
135: ENDIF
136: IF m.compstat = "ON"
137: SET COMPATIBLE ON
138: ENDIF
139:
140: *****
141: *
142: * YESNO Cleanup Code
143: *
144: *
145: * *****
146: *
147: #REGION 1
148: POP KEY
149:
150: * Convert the numeric value of m.answer from 1|2 to .T.|.F.
151: * If the user selected OK and didn't exit with Escape
152: IF m.answer = 1 AND LASTKEY() <> 27
153: RETURN .T.
154: ELSE
155: * Cancel or Escape returns false
156: RETURN .F.
157: ENDIF
158: *: EOF: YESNO.act
159:
```

```

1:  *:*****
=>  *:*****
2:  *:
3:  *: Procedure file: C:\CAMD2\KBEDIT\WORK\BACKUP.PRG
4:  *: System: Knowledge Base Editor
5:  *: Author: Hoa L. Ly
6:  *: Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7:  *: Last modified: 02/15/94 at 13:31:20
8:  *:
9:  *: Set by: KBMENU.MPR
10: *:
11: *: Calls: BACKUP.SPR
12: *:
13: *: Documented 15:00:47 FoxDoc versio
=> n 3.00a
14: *:*****
=>  *:*****
15: *:
=>  -----
16: * Backup data files
17: * Programmer: HLL
18: *
=>  -----
19: * PROCEDURE backup
20: PUBLIC mscreen
21: PRIVATE MESSAGE
22: SAVE SCREEN TO mscreen
23: MESSAGE = "Backup Knowledge Base database"
24: SET TOPIC TO "BACKUP"
25: DO backup.spr WITH MESSAGE
26: RESTORE SCREEN FROM mscreen
27: <---RETURN
28:
29: *: EOF: BACKUP.act

```

08/09/94	KBMENU.MPR	09:38:40
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description:		
This program was automatically generated by GENMENU.		

Menu Definition

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *
30: *
31: *
32: *
33: *
34: *
35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *

SET SYSMENU TO
SET SYSMENU AUTOMATIC
DEFINE PAD _qsfo6j4 OF _msysmenu PROMPT "System" COLOR SCHEME 3
DEFINE PAD _qsfo6je OF _msysmenu PROMPT "Knowledge Base" COLOR SCHE
=> ME 3
32: => 3
ON PAD _qsfo6j4 OF _msysmenu ACTIVATE POPUP SYSTEM
ON PAD _qsfo6je OF _msysmenu ACTIVATE POPUP knowledgeb
ON SELECTION PAD _qsfo6jm OF _msysmenu DO _quit
DEFINE PAD _qsfo6jm OF _msysmenu PROMPT "Exit system" COLOR SCHEME
ON PAD _qsfo6j4 OF _msysmenu ACTIVATE POPUP SYSTEM
ON PAD _qsfo6je OF _msysmenu ACTIVATE POPUP knowledgeb
ON SELECTION PAD _qsfo6jm OF _msysmenu DO _quit
DEFINE POPUP SYSTEM MARGIN RELATIVE SHADOW COLOR SCHEME 4 F1"
DEFINE BAR _mist help OF SYSTEM PROMPT "\<Help
DEFINE BAR 2 OF SYSTEM PROMPT "\<
DEFINE BAR 3 OF SYSTEM PROMPT "\<Backup"
DEFINE BAR 4 OF SYSTEM PROMPT "\<Restore"
ON SELECTION BAR 3 OF SYSTEM DO backup
ON SELECTION BAR 4 OF SYSTEM DO RESTORE
DEFINE POPUP knowledgeb MARGIN RELATIVE SHADOW COLOR SCHEME 4
DEFINE BAR 1 OF knowledgeb PROMPT "Knowledge Base Area"
DEFINE BAR 2 OF knowledgeb PROMPT "Question - Data Dictionary"
ON SELECTION BAR 1 OF knowledgeb DO Kb.spr
ON SELECTION BAR 2 OF knowledgeb DO dd.spr
*: EOF: KBMENU.ac2

```

BACKUP.AC1	10-3-94	3:00p
------------	---------	-------

Page 1 of 10


```

233: OTHERWISE
234:   filename = filename
235: END CASE
236:
237: #REGION 0
238: REGIONAL m.curarea, m.talkstat, m.compstat
239:
240: IF SET("TALK") = "ON"
241:   SET TALK OFF
242:   m.talkstat = "ON"
243: ELSE
244:   m.talkstat = "OFF"
245: END IF
246:
247: m.compstat = SET("COMPATIBLE")
248: SET COMPATIBLE FOXPLUS
249:
250: *
251: *
252: * MS-DOS Window definitions
253: *
254: *
255: *
256: *
257: IF NOT WEXIST("w_backup") ;
258:   OR UPPER(WTITLE("w_backup")) == "w_backup.pjx" ;
259:   OR UPPER(WTITLE("w_backup")) == "w_backup.scx" ;
260:   OR UPPER(WTITLE("w_backup")) == "w_backup.mnx" ;
261:   OR UPPER(WTITLE("w_backup")) == "w_backup.prg" ;
262:   OR UPPER(WTITLE("w_backup")) == "w_backup.frx" ;
263:   OR UPPER(WTITLE("w_backup")) == "w_backup.qpr" ;
264:   DEFINE WINDOW w_backup ;
265:     FROM INT((SROW()-18)/2), INT((SCOL()-61)/2) ;
266:     TO INT((SROW()-18)/2)+17, INT((SCOL()-61)/2)+60 ;
267:     NOFLOAT ;
268:     NOCLOSE ;
269:     SHADOW ;
270:     NOMINIMIZE ;
271:     DOUBLE ;
272:     COLOR SCHEME 5
273: END IF
274:
275: *
276: *
277: * BACKUP/MS-DOS Setup Code - SECTION 2
278: *
279: *
280: *
281: *
282: #REGION 1
283: m.olddrive = SET("DEFAULT")
284: m.preddrive = 1
285: m.olddpath = CURDIR()
286: maction = 1
287:
288:

```

```

289:
290:
291:
292:
293: DECLARE drivearray[1,1]
294: mdrive = 1
295: DO newdrivepop
296:
297: DECLARE patharray[1,1]
298: mpath = 1
299: DO newpathpop
300:
301: DECLARE filearray[1,1]
302: mfiles = 1
303: DO newfilepop
304:
305:
306:
307:
308:
309: *
310: *
311: * BACKUP/MS-DOS Screen Layout
312: *
313: *
314: #REGION 1
315: IF WVISIBLE("w_backup")
316:   ACTIVATE WINDOW w_backup SAME
317: ELSE
318:   ACTIVATE WINDOW w_backup NOSHOW
319: END IF
320:
321: @ 3,29 SAY "To drive: " ;
322:   SIZE 1,10, 0
323: @ 2,40 GET mdrive ;
324:   PICTURE "@ " ;
325:   FROM drivearray ;
326:   SIZE 3,18 ;
327:   DEFAULT 1 ;
328:   WHEN _qsfkoad9() ;
329:     VALID _qsfkoadid() ;
330:     COLOR SCHEME 5, 6
331: @ 6,29 SAY "Directory:" ;
332:   SIZE 1,10, 0
333: @ 0,1 SAY MESSAGE ;
334:   SIZE 1,40
335: @ 5,40 GET mpath ;
336:   PICTURE "@ " ;
337:   FROM patharray ;
338:   SIZE 3,18 ;
339:   DEFAULT 1 ;
340:   VALID _qsfkoadnu() ;
341:     COLOR SCHEME 5, 6
342: @ 9,45 GET maction ;
343:   PICTURE "@*VT \<Back>\<Cancel>" ;
344:   SIZE 1,8,1 ;
345:   DEFAULT 1 ;
346:   VALID _qsfkoadv()
347: @ 2,1 GET mfile ;
348:   PICTURE "@&N" ;
349:   FROM filearray ;

```

```

SIZE 11,26 ;
DEFAULT 1 ;
VALID qsf0koauy() ;
COLOR SCHEME 6
@ 14,1 SAY backup file name: " ;
SIZE 1,18,0
@ 14,19 GET ifname ;
SIZE 1,39 ;
DEFAULT " "

```

```
IF NOT WVISIBLE("w_backup")
  ACTIVATE WINDOW w_backup
ENDIF
```

BACKUP/MS-DOS Cleanup Code

```
#REGION 1
SET DEFAULT TO (m.olddrive + m.oldpath)
-RETURN
```

ENDCASE

441:
442:
443:
444:
445:
446:
447:
448:
449:
450:
451:
452:
453:
454:
455:
456:
457:
458:
459:
460:
461:
462:
463:
464:
465:
466:
467:
468:
469:
470:
471:
472:
473:
474:
475:

```
*
*      #REGION 1
*      m.prevdrive = mdrive
*
*      _QSF0K098Q          mdrive VALID
*
*      Function Origin:
*
*      From Platform:        Windows
*      From Screen:         BACKUP,
*      Variable:             mdrive
*      Called By:            VALID Clause
*      Object Type:          PopUp
*      Snippet Number:       2
*
*
*      *Switch to the selected drive
*      FUNCTION _qsfk098q   && mdrive VALID
*      #REGION 1
*      PRIVATE newdrive,mready
*
*      *Convert the popup bar number into the matching drive name
*      m.newdrive = drivearray[mdrive]
*
*      IF UPPER(m.newdrive) $ "A:B:"
*          mready = yesno("Please insert disk into drive " + m.newdrive, "rea
```



```

476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
490: *
491: *
492: *
493: *
494: *
495: *
496: *
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527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *
537: *
538: *
539: *
540: *

FUNCTION _qsfo09hk      maction VALID
#REGION 1
DO CASE
CASE maction = 1
pkzip = .T.
IF FILE(mfname)
mdel = yesno( mfname + " already exists, overwrite it? ", "Yes"
=> , "Cancel")
IF mdel
DELETE FILE &mfname
ELSE
pkzip = .F.
ENDIF
ENDIF
IF pkzip
DO pkzip
ENDIF
OTHERWISE
ENDCASE
ENDIF
ENDFUNCTION

FUNCTION _qsfo09lv      mfile VALID
#REGION 1
mnewfile = filearray[mfile,1]
IF " " $ mnewfile
mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
SET DEFA TO (mnewpath)
DO newpathpop
DO newfilepop
SHOW GETS
ELSE
mfname = mnewfile
SHOW GETS
ENDIF
ENDIF
ENDFUNCTION

```

```

541: *
542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *
555: *
556: *
557: *
558: *
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560: *
561: *
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565: *
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593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *

FUNCTION _qsfo0koag9    mdrive WHEN
#REGION 1
m.prevdrive = mdrive
ENDFUNCTION

FUNCTION _qsfo0koaid    mdrive VALID
#REGION 1
PRIVATE newdrive,mready
*Switch to the selected drive
FUNCTION _qsfo0koaid    && mdrive VALID
PRIVATE newdrive,mready
*Convert the popup bar number into the matching drive name
m.newdrive = drivearray[mdrive]
IF UPPER(m.newdrive) $ "A:B:"
mready = yesno("Please insert disk into drive " + m.newdrive, "rea
ncancel")
ELSE
mready = .T.
ENDIF
IF mready
*Go there and reset all the other popups to match
SET DEFAULT TO (m.newdrive)
DO newpathpop
DO newfilepop
ELSE
mdrive = m.prevdrive
m.newdrive = drivearray[mdrive]
ENDIF
SHOW GETS
ENDIF
ENDFUNCTION

FUNCTION _qsfo0koanu    mpath VALID
#REGION 1
ENDFUNCTION

```

```

606: *
607: *
608: *
609: *
610: *
611: *
612: *
613: *
614: *
615: *
616: *
617: *
618: *
619: *
620: *
621: *
622: *
623: *
624: *
625: *
626: *
627: *
628: *
629: *
630: *
631: *
632: *
633: *
634: *
635: *
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639: *
640: *
641: *
642: *
643: *
644: *
645: *
646: *
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651: *
652: *
653: *
654: *
655: *
656: *
657: *
658: *
659: *
660: *
661: *
662: *
663: *
664: *
665: *
666: *
667: *
668: *
669: *
670: *

```

Variable: mpath
Called By: VALID Clause
Object Type: Popup
Snippet Number: 8

FUNCTION _qsfokoauv && mpath VALID

#REGION 1_mnewfile
m.newdefault = pathstring()
SET DEFAULT TO (m.newdefault)
DO newpathpop
DO newfilepop
SHOW GETS

_qsfokoauv
Function Origin:

From Platform: MS-DOS
From Screen: BACKUP,
Variable: maction Record Number: 18
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 9

FUNCTION _qsfokoauv && maction VALID

#REGION 1_mnewfile
DO CASE

CASE maction = 1

```

pkzip = .T.
IF FILE(mfname)
    mdel = yesno( mfname + " already exists, overwrite it?", "Yes"
=> "Cancel")
    IF mdel
        DELETE FILE &mfname
    ELSE
        pkzip = .F.
    ENDIF
ENDIF
IF pkzip
    DO pkzip
ENDIF
OTHERWISE
ENDIF

```

_qsfokoauv mfile VALID

Function Origin:

From Platform: MS-DOS
From Screen: BACKUP,
Variable: mfile Record Number: 19
Called By: VALID Clause
Object Type: List
Snippet Number: 10

FUNCTION _qsfokoauv && mfile VALID

```

#REGION 1_mnewfile
mnewfile = filearray(mfile,1)
IF "% $ mnewfile
    mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
    SET DEFA TO (mnewpath)
    DO newpathpop
    DO newfilepop
    SHOW GETS
ELSE
    mfname = mnewfile
    SHOW GETS
ENDIF

```

BACKUP/MS-DOS Supporting Procedures and Functions

BACKUP Procedure NEWDRIVEPOP

PROCEDURE newdrivepop

DO CASE

CASE DOS

* Create a popup with each of the legal drive names
* The popup will be based on an array of the drive names
PRIVATE olddefault, olderror, drivename, ERROR

* We will change drives, so remember where we started
m.olddefault = SET("DEFAULT")

* To test for legal drives this program SET DEFAULT TO each drive
* If no error occurs the drive name will be added to an array

* Create the error trap
m.olderror = ON("ERROR")
m.error = .F.
ON ERROR m.error = .T.

* Create the array of legal drive names
DECLARE drivearray[1]
drivearray[1] = ""

* Loop from A to Z
m.drivename = "A"
FOR i = 1 TO 26

* Try to switch to the drive
SET DEFAULT TO (m.drivename)

* If it worked
IF NOT m.error

* Add the name to the last element in the array

```

737:      drivearray[ ALEN( DriveArray ) J ] = m.drivename + ":"
738:      * Add another element at the end of the array
739:      DECLARE drivearray[ ALEN( DriveArray ) + 1 J ]
740:      *
741:      *
742:      *
743:      *
744:      * Change to the next letter in the alphabet
745:      m.drivename = CHR( ASC( m.drivename ) + 1 )
746:      *
747:      * Reset the error trap
748:      m.error = .F.
749:      *
750:      *
751:      *
752:      * If the first element is empty, no drives were found
753:      IF EMPTY( drivearray[ 1 J ] )
754:      SHOW GET mdrive disabled
755:      *
756:      * Drives were found so cut off the last empty element
757:      * added to the array in the loop
758:      DECLARE drivearray[ ALEN( DriveArray ) - 1 J ]
759:      *
760:      * Reset the error trap and return to home
761:      ON ERROR &olderror
762:      SET DEFAULT TO ( m.olddefault )
763:      *
764:      * Initialize the popup variable to the element in the
765:      * drive array which contains the current drive
766:      mdrive = ASCAN( drivearray, m.olddefault )
767:      *
768:      *
769:      *
770:      *
771:      *
772:      * Create a popup with each of the legal drive names
773:      * The popup will be based on an array of the drive names
774:      PRIVATE olddefault, olderror, drivename, ERROR
775:      *
776:      * We will change drives, so remember where we started
777:      m.olddefault = SET( "DEFAULT" )
778:      *
779:      * To test for legal drives this program SET DEFAULT TO each drive
780:      * If no error occurs the drive name will be added to an array
781:      *
782:      * Create the error trap
783:      m.olderror = ON( "ERROR" )
784:      m.error = .F.
785:      ON ERROR m.error = .T.
786:      *
787:      * Create the array of legal drive names
788:      DECLARE drivearray[ 3 J ]
789:      drivearray[ 1 J ] = "A"
790:      drivearray[ 2 J ] = "B"
791:      drivearray[ 3 J ] = ""
792:      *
793:      * Loop from C to Z
794:      m.drivename = "C"
795:      FOR I = 3 TO 26
796:      *
797:      * Try to switch to the drive
798:      SET DEFAULT TO ( m.drivename )
799:      *
800:      * If it worked
801:      *
802:      IF NOT m.error

```

```

803:      * Add the name to the last element in the array
804:      drivearray[ ALEN( DriveArray ) J ] = m.drivename + ":"
805:      *
806:      * Add another element at the end of the array
807:      DECLARE drivearray[ ALEN( DriveArray ) + 1 J ]
808:      *
809:      *
810:      *
811:      * Change to the next letter in the alphabet
812:      m.drivename = CHR( ASC( m.drivename ) + 1 )
813:      *
814:      * Reset the error trap
815:      m.error = .F.
816:      *
817:      *
818:      *
819:      * If the first element is empty, no drives were found
820:      IF EMPTY( drivearray[ 1 J ] )
821:      SHOW GET mdrive disabled
822:      *
823:      * Drives were found so cut off the last empty element
824:      * added to the array in the loop
825:      DECLARE drivearray[ ALEN( DriveArray ) - 1 J ]
826:      *
827:      * Reset the error trap and return to home
828:      ON ERROR &olderror
829:      SET DEFAULT TO ( m.olddefault )
830:      *
831:      * Initialize the popup variable to the element in the
832:      * drive array which contains the current drive
833:      mdrive = ASCAN( drivearray, m.olddefault )
834:      *
835:      *
836:      *
837:      *
838:      *
839:      *
840:      *
841:      *
842:      *
843:      *
844:      *
845:      *
846:      *
847:      *
848:      *
849:      *
850:      *
851:      *
852:      *
853:      *
854:      *
855:      *
856:      *
857:      *
858:      *
859:      *
860:      *
861:      *
862:      *
863:      *
864:      *
865:      *
866:      *
867:      *
868:      *

```

BACKUP Procedure NEWPATHPOP

```

PROCEDURE newpathpop
DO CASE
CASE DOS
*****
* Create a popup with one bar for each subdirectory
* in the current path
PRIVATE dirstring, dircount
* Base the popup on an array with one element for
* each subdirectory in the current path
* Start the array with the current drive
DECLARE patharray[ 1 J ]
patharray[ 1 J ] = SET( "DEFAULT" )
* Get the current path string
m.dirstring = CURDIR()
* If we are not in the root directory
IF LEN( m.dirstring ) > 1
* Start parsing the path string for each directory name

```

```

869: m.dircount = 1
870:
871: * Continue as long as there is a pair of slashes
872: * Surrounding the next part of the string
873: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
874:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0
875:
876: * Add another element at the end of the array
877: DECLARE patharray[ m.dircount + 1 ]
878:
879: * Cut out the next set of characters between the slashes
880: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
881:
882: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
883:   - m.firstchar
884:
885: * And add them to the next array element
886: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
887:   m.firstchar, m.pathlength )
888:
889: * Look for the next directory name in the path string
890: m.dircount = m.dircount + 1
891:
892: ENDDO
893:
894: * Point the popup variable at the last element in the array
895: mpath = ALEN( patharray )
896:
897: RETURN
898:
899: *****
900: CASE WINDOWS
901: *****
902: * Create a popup with one bar for each subdirectory
903: * in the current path
904: PRIVATE dirstring, dircount
905:
906: * Base the popup on an array with one element for
907: * each subdirectory in the current path
908:
909: * Start the array with the current drive
910: DECLARE patharray[ 1 ]
911: patharray[ 1 ] = SET( "DEFAULT" )
912:
913: * Get the current path string
914: m.dirstring = CURDIR()
915:
916: * If we are not in the root directory
917: IF LEN( m.dirstring ) > 1
918:
919: * Start parsing the path string for each directory name
920: m.dircount = 1
921:
922: * Continue as long as there is a pair of slashes
923: * Surrounding the next part of the string
924: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
925:   AT( "\", m.dirstring, m.dircount + 1 ) <> 0
926:
927: * Add another element at the end of the array
928: DECLARE patharray[ m.dircount + 1 ]
929:
930: * Cut out the next set of characters between the slashes
931: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
932:
933: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
934:   - m.firstchar

```

```

935:
936:
937:
938:
939:
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941:
942:
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990:
991:
992:
993:
994:
995:
996:
997:
998:

```

```

* And add them to the next array element
patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
m.firstchar, m.pathlength )

* Look for the next directory name in the path string
m.dircount = m.dircount + 1

ENDDO
ENDIF
RETURN
mpath = ALEN( patharray )
*****
ENDCASE

```

BACKUP Procedure NEWFILEPOP

```

PROCEDURE newfilepop
DO CASE
CASE DOS
*****
* Create a popup with all of the file names and its subdirection i
* This will be based on an array as well
* Create an array with all the files matching the current wild car
* ADIR() creates an array with 5 columns.

PRIVATE startsort
* Fill an array with directory names only
=ADIR( dirarray, "", "N")
SIZE = ALEN( dirarray, 1 )
IF dirarray[ 1, 1 ] = "."
=ADEL( dirarray, 1 )
SIZE = SIZE - 1
DECLARE dirarray[ size, 5 ]
ELSE
* We must be in the root directory "\
* Add one more row to the directory array
SIZE = SIZE + 1
DECLARE dirarray[ SIZE, 5 ]

* Push all the rows down by one
=AINS( dirarray, 1 )

* Fill in the first directory name in the array
* a bug in the popups makes it refuse to display a
* prompt of "\", use "\\" to make one \ appear
* even then the bar will automatically be non-selectable
* which in this case is fine
dirarray[ 1, 1 ] = "\\"

* Start the sort after the root name
ENDIF

```

```

999:  IF ALEN( dirarray, 1 ) > 2
1000:
1001:      * Sort the array starting at the starting row
1002:      =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1003:
1004:      IF
1005:          FOR i = 1 TO ALEN(dirarray,1)
1006:              dirarray[i,1] = "[" + dirarray[i,1] + "]"
1007:          ENDFOR
1008:
1009:      IF ADIR( filearray, m.wildcard ) = 0
1010:          SIZE = ALEN( dirarray, 1 )
1011:          DECLARE filearray[ size, 5 ]
1012:          =ACOPY( dirarray, filearray )
1013:      ELSE
1014:          stop = ALEN( dirarray, 1 )
1015:          FOR i = 1 TO stop
1016:              SIZE = ALEN( filearray, 1 )
1017:              DECLARE filearray[ size + 1, 5 ]
1018:              =AINS( filearray, 1 )
1019:              filearray[1,1] = dirarray( alen( dirarray, 1 ), 1 )
1020:              IF ALEN( dirarray, 1 ) > 1
1021:                  DECLARE dirarray( alen( dirarray, 1 ) - 1, 5 )
1022:              ENDIF
1023:          ENDFOR
1024:      ENDIF
1025:      mfile = 1
1026:      RETURN
1027:
1028: *****
1029: CASE WINDOWS
1030: *****
1031:
1032:      * Create a popup with all of the file names and its subdirection i
1033:      the current directory
1034:      * This will be based on an array as well
1035:
1036:      * Create an array with all the files matching the current wild car
1037:      => d
1038:
1039:      * ADIR() creates an array with 5 columns.
1040:
1041:      PRIVATE startsort
1042:      * Fill an array with directory names only
1043:      =ADIR( dirarray, "", "p")
1044:      SIZE = ALEN( dirarray, 1 )
1045:      IF dirarray[ 1, 1 ] = "."
1046:          =ADEL( dirarray, 1 )
1047:      SIZE = SIZE - 1
1048:      DECLARE dirarray[ size, 5 ]
1049:      ELSE
1050:          * We must be in the root directory "\"
1051:          * Add one more row to the directory array
1052:          SIZE = SIZE + 1
1053:          DECLARE dirarray[ SIZE, 5 ]
1054:
1055:          * Push all the rows down by one
1056:          =AINS( dirarray, 1 )
1057:
1058:          * Fill in the first directory name in the array
1059:          * a bug in the popups makes it refuse to display a
1060:          * prompt of "\" use "\" to make one \ appear
1061:          * even then the bar will automatically be non-selectable
1062:          * which in this case is fine
1063:          dirarray[ 1, 1 ] = "\"
1064:
1065:          * Start the sort after the root name
1066:          ENDIF

```

```

1063:
1064:
1065:      IF ALEN( dirarray, 1 ) > 2
1066:
1067:          * Sort the array starting at the starting row
1068:          =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1069:
1070:          IF
1071:              FOR i = 1 TO ALEN(dirarray,1)
1072:                  dirarray[i,1] = "[" + dirarray[i,1] + "]"
1073:              ENDFOR
1074:
1075:          IF ADIR( filearray, m.wildcard ) = 0
1076:              SIZE = ALEN( dirarray, 1 )
1077:              DECLARE filearray[ size, 5 ]
1078:              =ACOPY( dirarray, filearray )
1079:          ELSE
1080:              stop = ALEN( dirarray, 1 )
1081:              FOR i = 1 TO stop
1082:                  SIZE = ALEN( filearray, 1 )
1083:                  DECLARE filearray[ size + 1, 5 ]
1084:                  =AINS( filearray, 1 )
1085:                  filearray[1,1] = dirarray( alen( dirarray, 1 ), 1 )
1086:                  IF ALEN( dirarray, 1 ) > 1
1087:                      DECLARE dirarray( alen( dirarray, 1 ) - 1, 5 )
1088:                  ENDIF
1089:              ENDFOR
1090:          ENDIF
1091:          mfile = 1
1092:          RETURN
1093:
1094: *****
1095: CASE DOS
1096: *****
1097:
1098:      * Convert an array of subdirectories, such as PathArray,
1099:      * into a legal path string for use with SET DEFAULT
1100:      * Use the current value of the path popup as the
1101:      * ending point on the path
1102:      PRIVATE ppath
1103:
1104:      * Start with the drive name
1105:      m.ppath = patharray[ 1 ]
1106:
1107:      * If the path popup is pointing to a subdirectory
1108:      IF mpath > 1
1109:
1110:          * Add all the subdirectories to the path string
1111:          FOR i = 2 TO mpath
1112:              m.ppath = m.ppath + "\" + patharray[ i ]
1113:          NEXT
1114:      ENDIF
1115:
1116:      * End the path with one last slash for good luck
1117:      m.ppath = m.ppath + "\"
1118:
1119:
1120:
1121:
1122:
1123:
1124:
1125:
1126:
1127:
1128:

```

BACKUP Function PATHSTRING

```

1194: *****
1195: PRIVATE CURDIR, datadir, msel
1196: CURDIR = FULLPATH(CURDIR())
1197: IF !EMPTY(GETENV("KBDATA"))
1198:   datadir = FULLPATH(GETENV("KBDATA"))
1199: ELSE
1200:   datadir = CURDIR()
1201: ENDIF
1202: desdir = pathstring() + mfname
1203: SET DEFA TO (datadir)
1204: IF !EMPTY(GETENV("CAMDUTIL"))
1205:   pkzipcom = "!i" + GETENV("CAMDUTIL") + "\PKZIP &desdir *.dbf *.c
=> dx *.idx *.fpt"
1206: ELSE
1207:   pkzipcom = "!iPKZIP &desdir *.dbf *.cdx *.idx *.fpt"
1208: ENDIF
1209: &pkzipcom
1210: USE
1211: DELETE FILE t0000000.txt
1212: SET DEFA TO (CURDIR)
1213: RETURN
1214: ENDCASE
1215: * EOF: BACKUP.ac1
1216:

```

```

1129: RETURN m.ppath
1130: *****
1131: CASE WINDOWS
1132: *****
1133: * Convert an array of subdirectories, such as PathArray,
1134: * into a legal path string for use with SET DEFAULT
1135: * Use the current value of the path popup as the
1136: * ending point on the path
1137: PRIVATE ppath
1138:
1139: * Start with the drive name
1140: m.ppath = patharray[1]
1141:
1142: * If the path popup is pointing to a subdirectory
1143: IF mpath > 1
1144:
1145:   * Add all the subdirectories to the path string
1146:   FOR i = 2 TO mpath
1147:     m.ppath = m.ppath + "\" + patharray[i]
1148:   NEXT i
1149: ENDIF
1150:
1151: * End the path with one last slash for good luck
1152: m.ppath = m.ppath + "\"
1153:
1154: RETURN m.ppath
1155: *****
1156: ENDCASE

```

BACKUP Procedure PKZIP

```

1160: *
1161: *
1162: *
1163: *
1164: *
1165: *
1166: *
1167:
1168: PROCEDURE pkzip
1169: DO CASE
1170: CASE DOS
1171: *****
1172: *****
1173:
1174: PRIVATE CURDIR, datadir, msel
1175: CURDIR = FULLPATH(CURDIR())
1176: IF !EMPTY(GETENV("CAMD"))
1177:   datadir = FULLPATH(GETENV("CAMD"))
1178: ELSE
1179:   datadir = CURDIR()
1180: ENDIF
1181: desdir = pathstring() + mfname
1182: SET DEFA TO (datadir)
1183: IF !EMPTY(GETENV("CAMDUTIL"))
1184:   pkzipcom = "!i" + GETENV("CAMDUTIL") + "\PKZIP &desdir *.dbf *.c
=> dx *.idx *.fpt"
1185: ELSE
1186:   pkzipcom = "!iPKZIP &desdir *.dbf *.cdx *.idx *.fpt"
1187: ENDIF
1188: &pkzipcom
1189: USE
1190: DELETE FILE t0000000.txt
1191: SET DEFA TO (CURDIR)
1192: RETURN
1193: CASE WINDOWS

```



```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: DO CASE
18: _CASE_WINDOWS
19: _
20: _
21: #REGION 0
22: REGIONAL m.currarea, m.talkstat, m.compstat
23:
24: IF SET("TALK") = "ON"
25: SET TALK OFF
26: m.talkstat = "ON"
27: ELSE
28: m.talkstat = "OFF"
29: ENDIF
30: m.compstat = SET("COMPATIBLE")
31: SET COMPATIBLE FOXPLUS
32:
33: m.rborder = SET("READBORDER")
34: SET readborder ON
35:
36: *
37:
38: *
39: *
40: *
41: *
42: *
43:
44: IF NOT WEXIST("w_kb") ;
45: OR UPPER(WTITLE("w_kb")) == "w_kb.PJX" ;
46: OR UPPER(WTITLE("w_kb")) == "w_kb.SCX" ;
47: OR UPPER(WTITLE("w_kb")) == "w_kb.MNX" ;
48: OR UPPER(WTITLE("w_kb")) == "w_kb.PRQ" ;
49: OR UPPER(WTITLE("w_kb")) == "w_kb.FRX" ;
50: OR UPPER(WTITLE("w_kb")) == "w_kb.QPR" ;
51: DEFINE WINDOW w_kb ;
52: AT 0.000, 0.000 ;
53: SIZE 30,167,69,250 ;
54: TITLE "Knowledge Base Area" ;
55: FONT "Terminal", 8 ;
56: FLOAT ;
57: CLOSE ;
58: SHADOW ;
59: NOMINIMIZE
60: MOVE WINDOW w_kb CENTER
61: ENDIF

```

```

=> 120:
=> 121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:
133:
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181:
182:

```

```

*
*
#REGION 1
IF WVISIBLE("w_kb")
  ACTIVATE WINDOW w_kb SAME
ELSE
  ACTIVATE WINDOW w_kb NOSHOWN
ENDIF
a 9.250,4.500 SAY "Consider" ;
  FONT "Terminal", 8
a 14.000,4.750 SAY "Probable" ;
  FONT "Terminal", 8
a 18.417,5.000 SAY "Likely" ;
  FONT "Terminal", 8
a 7.333,3.250 TO 21.666,24.875 ;
  PEN 1,8
a 5.833,4.000 SAY "display thresholds" ;
  FONT "Terminal", 8
a 15.917,26.250 SAY "Inference" ;
  FONT "Terminal", 8
a 20.583,26.000 SAY "Confidence" ;
  FONT "Terminal", 8
a 1.500,4.125 SAY "Knowledge Base Area:" ;
  FONT "Terminal", 8 ;
  STYLE "T"
a 8.500,26.375 SAY "Total Rules:" ;
  FONT "Terminal", 8 ;
  STYLE "T"
a 25.083,5.625 GET mbbuttons ;
  PICTURE "a*HN \<Add;\<Edit;\<Delete;\<OK;\<Cancel" ;
  SIZE 1.917,11.125,0.875 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsfokofx9()
a 6.083,53.500 GET mbbuttons ;
  PICTURE "a*VN \<Next;\<Previous;\<Browse;\<Qualifiers;\<Goals;C
=> once\clusion"
157:
158:
159:
160:
161:
162:
163:
164:
165:
166:
167:
168:
169:
170:
171:
172:
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180:
181:
182:

```

```

183:
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241:
242:
243:

```

```

PICTURE "a*MC DIAGNOSIS" ;
SIZE 1.417,11.875 ;
DEFAULT 0 ;
FONT "Terminal", 8
a 20.250,37.500 GET m.mpop ;
  PICTURE "a" ;
  FROM methods ;
  SIZE 1.500,13.000 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsfokogfv()
a 15.833,37.500 GET m.mpop2 ;
  PICTURE "a" ;
  FROM infs ;
  SIZE 1.500,12.750 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID qsfokogih()

IF NOT WVISIBLE("w_kb")
  ACTIVATE WINDOW w_kb
ENDIF

READ CYCLE MODAL

RELEASE WINDOW w_kb

#REGION 0

SET readborder &rborder

IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF

*
*
*
*
*
*
#REGION 1
SELECT area
USE
SELECT goals
USE
SELECT DISPLAY
USE
SELECT quals
USE
SELECT disease
USE
SELECT enum
USE
SELECT dict
USE

```

KB/Windows Cleanup Code


```

244: SELECT VAL
245: USE
246: RETURN
247:
248:
249: CASE _DOS
250:
251: #REGION 0
252: REGIONAL m.curraarea, m.talkstat, m.compstat
253:
254: IF SET("TALK") = "ON"
255: SET TALK OFF
256: m.talkstat = "ON"
257: ELSE
258: m.talkstat = "OFF"
259: ENDIF
260: m.compstat = SET("COMPATIBLE")
261: SET COMPATIBLE FOXPLUS
262:
263:
264:
265:
266: MS-DOS Window definitions
267:
268:
269:
270:
271: IF NOT WEXIST("w_kb") ;
272: OR UPPER(WTITLE("w_kb")) == "w_kb.pjx" ;
273: OR UPPER(WTITLE("w_kb")) == "w_kb.scx" ;
274: OR UPPER(WTITLE("w_kb")) == "w_kb.mnx" ;
275: OR UPPER(WTITLE("w_kb")) == "w_kb.prg" ;
276: OR UPPER(WTITLE("w_kb")) == "w_kb.frx" ;
277: OR UPPER(WTITLE("w_kb")) == "w_kb.qpr" ;
278: DEFINE WINDOW w_kb ;
279: FROM INT((SROW()-18)/2), INT((SCOL()-75)/2) ;
280: TO INT((SROW()-18)/2)+1, INT((SCOL()-75)/2)+74 ;
281: TITLE "Knowledge Base Area" ;
282: FLOAT ;
283: CLOSE ;
284: SHADOW ;
285: NOMINIMIZE ;
286: COLOR SCHEME 1
287:
288:
289:
290:
291:
292: KB/MS-DOS Setup Code - SECTION 2
293:
294:
295:
296:
297: #REGION 1
298: SCATTER MEMVAR
299: m.mpop = m.method + 1

```

```

300: m.mpop2 = m.inference + 1
301:
302:
303:
304:
305:
306:
307:
308:
309:
310: #REGION 1
311: IF WVISIBLE("w_kb")
312: ACTIVATE WINDOW w_kb SAME
313: ELSE
314: ACTIVATE WINDOW w_kb NOSHOW
315: ENDIF
316: @ 5,2 SAY "Consider" ;
317: SIZE 1,8, 0
318: @ 7,2 SAY "Probable" ;
319: SIZE 1,8, 0
320: @ 9,2 SAY "Likely" ;
321: SIZE 1,6, 0
322: @ 14,6 GET m.buttons ;
323: PICTURE "a*HT \<Add;\<Edit;\<Delete;\<OK;\<Cancel" ;
324: SIZE 1,12,1 ;
325: DEFAULT 1 ;
326: VALID qsf0koh4z()
327: @ 5,12 GET m.threshold ;
328: SIZE 1,6 ;
329: DEFAULT 0
330: @ 7,12 GET m.probable ;
331: SIZE 1,6 ;
332: DEFAULT 0
333: @ 9,12 GET m.likely ;
334: SIZE 1,6 ;
335: DEFAULT 0
336: @ 1,17 GET m.name ;
337: SIZE 1,34 ;
338: DEFAULT " "
339: @ 3,0 TO 10,24
340: @ 3,4 SAY "Display thresholds" ;
341: SIZE 1,18, 0
342: @ 3,28 SAY "Rules" ;
343: SIZE 1,5, 0
344: @ 3,37 GET m.rules ;
345: SIZE 1,4 ;
346: DEFAULT " " ;
347: DISABLE
348: @ 9,39 GET m.mpop ;
349: PICTURE "a " ;
350: FROM methods ;
351: SIZE 3,12 ;
352: DEFAULT 1 ;
353: VALID qsf0koh1() ;
354: COLOR SCHEME 1, 2
355: @ 7,28 SAY "Inference" ;
356: SIZE 1,9, 0
357: @ 6,39 GET m.mpop2 ;
358: PICTURE "a " ;
359: FROM infs ;
360: SIZE 3,12 ;

```

KB/MS-DOS Screen Layout

```
361: DEFAULT 1;  
362: VALID qsfokohm5();  
363: COLOR SCHEME 1,2  
364: @ 10,28 SAY "Confidence";  
365: SIZE 1,10,0  
366: @ 5,28 GET m.isdiag;  
367: PICTURE "@*C DIAGNOSIS";  
368: SIZE 1,13;  
369: DEFAULT 0  
370: @ 1,0 GET minvbutton;  
371: PICTURE "@*HN \Knowledge Base";  
372: SIZE 1,16,1;  
373: DEFAULT 1;  
374: VALID qsfokohpt();  
375: MESSAGE "Knowledge Base"  
376: @ 2,58 GET mbuttons;  
377: PICTURE "@*VN \<Next;\<Previous;\<Browse;\<Qualifiers;\<Goals;C  
=> onc\<clusion";  
378: SIZE 1,13,1;  
379: DEFAULT 1  
380:  
381: IF NOT WVISIBLE("w_kb")  
382: ACTIVATE WINDOW w_kb  
383: ENDIF  
384:  
385: READ CYCLE MODAL  
386:  
387: RELEASE WINDOW w_kb  
388:  
389: #REGION 0  
390: IF m.talkstat = "ON"  
391: SET TALK ON  
392: ENDIF  
393: IF m.compstat = "ON"  
394: SET COMPATIBLE ON  
395: ENDIF  
396:  
397: ENDCASE
```

_QSFOKOFX9

Function Origin:

From Platform: KB, Record Number: 11

From Screen: mbuttons

Variable: VALID Clause

Called By: Push Button

Object Type: 1

Snippet Number:

```
426: SET TOPIC TO "DELETE"  
427: DO kbdel.spr  
428: CASE mbuttons = 4  
429: SELECT area  
430: m.name = m.areaname  
431: GATHER MEMVAR  
432: CLEAR READ  
433: CASE mbuttons = 5  
434: CLEAR READ  
435: ENDCASE  
436: SELECT area  
437: SCATTER MEMVAR  
438: DO setgoals  
439: DO setgoals  
440: DO setdisplay  
441: m.mpop = area.method + 1  
442: m.mpop2 = area.inference + 1  
443: SHOW GETS  
444: mtopic = ALIAS()  
445: SET TOPIC TO &mtopic  
446:  
447: *  
448: *  
449: *  
450: *  
451: *  
452: *  
453: *  
454: *  
455: *  
456: *  
457: *  
458: *  
459: *  
460: *  
461: *  
462: *  
463: FUNCTION _qsfokog2m  
464: #REGION 1  
465: SELECT area  
466: DO CASE  
467: CASE mbuttons = 1  
468: m.recno = RECNO()  
469: IF IEOF()  
470: SKIP  
471: SHOW GET mbuttons,2 ENABLE  
472: IF EOF()  
473: GOTO BOTTOM  
474: SHOW GET mbuttons,1 DISABLE  
475: ENDIF  
476: ELSE  
477: GOTO BOTTOM  
478: SHOW GET mbuttons,2 ENABLE  
479: SHOW GET mbuttons,1 DISABLE  
480: ENDIF  
481: CASE mbuttons = 2  
482: m.recno = RECNO()  
483: IF IBOF()  
484: SKIP -1  
485: SHOW GET mbuttons,1 ENABLE  
486: ELSE  
487: GOTO TOP  
488: SHOW GET mbuttons,1 ENABLE  
489: SHOW GET mbuttons,2 DISABLE  
490: ENDIF  
491: CASE mbuttons = 3  
492: && <Browse>
```

_QSFOKOG2M

Function Origin:

From Platform: Windows, Record Number: 12

From Screen: KB, mbuttons

Variable: VALID Clause

Called By: Push Button

Object Type: 2

Snippet Number:

```

492: SET TOPIC TO "BROWSE"
493: BROWSE NOEDIT
494: CASE mbutton = 4
495: PRIVATE msel
496: msel = SELECT()
497: SELECT quals
498: SET TOPIC TO "QUALIFIERS"
499: DO qual.spr
500: SELECT (msel)
501: RETURN .T.
502: CASE mbutton = 5
503: PRIVATE msel
504: msel = SELECT()
505: SELECT goals
506: SET TOPIC TO "GOALS"
507: DO goal.spr
508: SELECT (msel)
509: RETURN .T.
510: CASE mbutton = 6
511: PRIVATE msel
512: msel = SELECT()
513: SELECT DISPLAY
514: SET TOPIC TO "DISPLAY"
515: DO display.spr
516: SELEC (msel)
517: RETURN .T.
518: ENDCASE
519: SCATTER MEMVAR
520: m.areaname = m.name
521: m.areaid = m.area
522: DO setgoals
523: DO setgoals
524: DO setdisplay
525: m.mpop = area.method + 1
526: m.mpop2 = area.inference + 1
527: SHOW GETS
528: mtopic = ALIAS()
529: SET TOPIC TO &mtopic

```

* * * * *

_QSF0KOGFV	m.mpop VALID
Function Origin:	
From Platform:	Windows
From Screen:	KB,
Variable:	m.mpop
Called By:	VALID Clause
Object Type:	Popup
Snippet Number:	3

* * * * *

Record Number: 19

* * * * *

FUNCTION _qsf0kogfv	&& m.mpop VALID
#REGION 1_	
m.method = m.mpop - 1	

* * * * *

* * * * *

_QSF0KOGIH	m.mpop2 VALID
Function Origin:	

* * * * *

* * * * *

From Platform:	Windows
From Screen:	KB,
Variable:	m.mpop2
Called By:	VALID Clause
Object Type:	Popup
Snippet Number:	4

* * * * *

* * * * *

FUNCTION _qsf0kogih	&& m.mpop2 VALID
#REGION 1_	
m.inference = m.mpop2 - 1	

* * * * *

* * * * *

_QSF0KOH4Z	mbutton VALID
Function Origin:	

* * * * *

* * * * *

From Platform:	MS-DOS
From Screen:	KB,
Variable:	mbutton
Called By:	VALID Clause
Object Type:	Push Button
Snippet Number:	5

* * * * *

* * * * *

FUNCTION _qsf0koh4z	&& mbutton VALID
#REGION 1_	

* * * * *

* * * * *

DO CASE	
SET TOPIC TO "ADD"	&& <Add>
DO kload.spr	
SET TOPIC TO "DELETE"	&& <Delete>
DO kdel.spr	
SET TOPIC TO "DISPLAY"	&& <conclusion>
DO display.spr	
RETURN .T.	
DO CASE	
SET TOPIC TO "GATHER MEMVAR"	&& ok
SET TOPIC TO "SCATTER MEMVAR"	&& cancel
ENDCASE	

* * * * *

* * * * *

DO CASE	
SET TOPIC TO "OR, mbutton = 2	&& <Next> <Previous>
IF ALIAS() != "AREA".AND. ALIAS() != "RULE"	
RETURN .T.	
ENDCASE	

* * * * *

* * * * *

m.recho = RECHO()	
IF mbutton = 1 .AND. !EOF()	&& <Next>
SKIP	
ENDIF	
IF mbutton = 2 .AND. !BOF()	&& <Previous>
SKIP -1	
ENDIF	
DO CASE	
SET ALIAS() = "RULE"	
m.goback = area != area.area	
OTHERWISE	
m.goback = EOF()	

* * * * *

```

624:  ENDCASE
625:  IF m.goback
626:    GOTO m.recno
627:  ENDIF
628:  CASE mbutton = 3
629:    SET TOPIC TO "BROWSE"
630:  DO CASE
631:    CASE ALIAS() = "AREA"
632:      BROWSE NOEDIT
633:    CASE ALIAS() = "RULE"
634:      BROWSE FOR area = area.area NOEDIT
635:  ENDCASE
636:  CASE mbutton = 4
637:    SET TOPIC TO "EDIT"
638:  DO CASE
639:    CASE ALIAS() = "AREA"
640:      DO kb.spr
641:    CASE ALIAS() = "RULE"
642:      DO rule.spr
643:  ENDCASE
644:  CASE mbutton = 5
645:    SELECT quals
646:    SET TOPIC TO "QUALIFIERS"
647:  DO qual.spr
648:  RETURN .T.
649:  CASE mbutton = 6
650:    SELECT goals
651:    SET TOPIC TO "GOALS"
652:  DO goal.spr
653:  RETURN .T.
654:  ENDCASE
655:  DO setprem
656:  DO setact
657:  DO setquals
658:  DO setgoals
659:  DO setdisplay
660:  m.mpop = area.method + 1
661:  m.mpop2 = area.inference + 1
662:  SHOW GETS
663:  mtopic = ALIAS()
664:  SET TOPIC TO &mtopic
665:
666:
667:
668:
669:
670:
671:
672:
673:
674:
675:
676:
677:
678:
679:
680:
681:
682:
683:
684:
685:
686:
687:
688:
689:

```

&& <Browse>

&& <Edit>

```

_qsf0kohj1      m.mpop VALID
Function Origin:
From Platform:   MS-DOS      Record Number: 35
From Screen:     KB,
Variable:         m.mpop
Called By:        m.mpop VALID Clause
Object Type:     popup
Snippet Number:   6

```

```

FUNCTION _qsf0kohj1      && m.mpop VALID
#REGION 1
m.method = m.mpop - 1

```

_qsf0kohm5 m.mpop2 VALID

```

Function Origin:
From Platform:   MS-DOS      Record Number: 37
From Screen:     KB,
Variable:         m.mpop2
Called By:        m.mpop2 VALID Clause
Object Type:     Popup
Snippet Number:   7

```

```

FUNCTION _qsf0kohm5      && m.mpop2 VALID
#REGION 1
m.inference = m.mpop2 - 1

```

```

_qsf0kohpt      minvbutton VALID
Function Origin:
From Platform:   MS-DOS      Record Number: 40
From Screen:     KB,
Variable:         minvbutton
Called By:        minvbutton VALID Clause
Object Type:     Push Button
Snippet Number:   8

```

```

FUNCTION _qsf0kohpt      && minvbutton VALID
#REGION 1
SELECT area
SET TOPIC TO "AREA"

```

KB/MS-DOS Supporting Procedures and Functions

KB Procedure SETQUALS

```

PROCEDURE setquals
PRIVATE msel,i
msel = SELECT()
SELECT quals
nq = RECCOUNT()
nq = MAX(nq,1)
DIMENSION mquals(nq,4)
GOTO TOP
mquals = ""
i = 0
DO WHILE IEOF()

```

```

756: i = i + 1
757: mgoals[i,3] = OBJECT
758: mgoals[i,4] = id
759: IF OBJECT = "D"
760:   SELECT disease
761: ELSE
762:   SELECT dict
763: ENDIF
764: SEEK mgoals[i,4]
765: mgoals[i,1] = name
766: mgoals[i,2] = ALIAS
767: SELECT quals
768: SKIP
769: ENDDO
770: ng = i
771: SELECT (msel)
772: RETURN
773:
774: *
775: *
776: *
777: *
778: *
779: *
780: *
781:
782: PROCEDURE setgoals
783: PRIVATE msel, i
784: msel = SELECT()
785: SELECT goals
786: ng = RECCOUNT()
787: ng = MAX(ng,1)
788: DIMENSION mgoals[ng,4]
789: GOTO TOP
790: i = 0
791: mgoals = ""
792: DO WHILE IEOF()
793:   i = i + 1
794:   mgoals[i,3] = OBJECT
795:   mgoals[i,4] = id
796:   IF OBJECT = "D"
797:     SELECT disease
798:   ELSE
799:     SELECT dict
800:   ENDIF
801:   SEEK mgoals[i,4]
802:   mgoals[i,1] = name
803:   mgoals[i,2] = ALIAS
804:   SELECT goals
805:   SKIP
806: ENDDO
807: ng = i
808: SELECT (msel)
809: RETURN
810:
811: *
812: *
813: *
814: *
815: *
816: *
817: *
818:
819: PROCEDURE setdisplay
820: PRIVATE msel, i
821: msel = SELECT()

```

KB Procedure SETDISPLAY

KB Procedure SETGOALS

```

822: SELECT DISPLAY
823: nd = RECCOUNT()
824: nd = MAX(nd,1)
825: DIMENSION mdispl[nd,4]
826: GOTO TOP
827: i = 0
828: mdispl = ""
829: DO WHILE IEOF()
830:   i = i + 1
831:   mdispl[i,3] = OBJECT
832:   mdispl[i,4] = id
833:   IF OBJECT = "D"
834:     SELECT disease
835:   ELSE
836:     SELECT dict
837:   ENDIF
838:   SEEK mdispl[i,4]
839:   mdispl[i,1] = name
840:   mdispl[i,2] = ALIAS
841:   SELECT DISPLAY
842:   SKIP
843: ENDDO
844: nd = i
845: SELECT (msel)
846: RETURN
847:
848: *
849: *
850: *
851: *
852: *
853: *
854: *
855:
856: PROCEDURE edgoal
857: =edobj( mgoals[ng,3], mgoals[ng,4] )
858: RETURN
859:
860: *
861: *
862: *
863: *
864: *
865: *
866: *
867:
868: PROCEDURE edqual
869: =edobj( mgoals[ng,3], mgoals[ng,4] )
870: RETURN
871:
872: *
873: *
874: *
875: *
876: *
877: *
878: *
879:
880: PROCEDURE eddisplay
881: =edobj( mdispl[nd,3], mdispl[nd,4] )
882: RETURN
883:
884: *
885: *
886: *
887: *

```

KB Procedure EDGOAL

KB Procedure EDQUAL

KB Procedure EDDISPLAY

KB Function EDOBJ

```
888: *
889: *
890: *
891:
892: FUNCTION edobj
893:   PARAMETERS mobj, mid
894:   PRIVATE msel
895:   msel = SELECT()
896:   IF mobj = "D"
897:     SELECT disease
898:     SEEK mid
899:     DO disease.spr
900:   ELSE
901:     SELECT dict
902:     SEEK mid
903:     DO dict.spr WITH mid
904:   ENDIF.
905:   SELECT (msel)
906:   RETURN ""
907:
908:
909: *: EOF: KB.ac1
```


QUAL/MS-DOS Cleanup Code

```

229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: *
243: *
244: *
245: *
246: *
247: *
248: *
249: *
250: *
251: *
252: *
253: *
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268: *
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277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *

```

```

229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: *
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277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *

```

FUNCTION _qsfokomjif && mbuttons VALID

```

263: DO CASE
264: CASE mbuttons = 1 && edit
265: IF IEMPTY(mq)
266: DO edqual
267: ENDIF
268: mok = .T.
269: CASE mbuttons = 2 && quit
270: mok = .F.
271: CLEAR READ
272: ENDCASE
273: SHOW GETS

```

```

274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *

```

FUNCTION _qsfokomrx && mq VALID

QUAL.AC1 10-3-94 3:00p

#REGION 1
DO edqual

```

291: *
292: *
293: *
294: *
295: *
296: *
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
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332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *

```

FUNCTION _qsfokon7e && mbuttons VALID

```

310: DO CASE
311: CASE mbuttons = 1 && add
312: DEACTIVATE WINDOW w_qe
313: DO object.spr
314: ACTIVATE WINDOW w_qe
315: DO setquals
316: CASE mbuttons = 2 && delete
317: mdl = validobj()
318: IF mdl
319: = qualdel()
320: ENDIF
321: CASE mbuttons = 3 && ok
322: mok = .T.
323: CLEAR READ
324: CASE mbuttons = 4 && cancel
325: mok = .F.
326: CLEAR READ
327: ENDCASE
328: SHOW GETS

```

```

329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: *
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *

```

FUNCTION _qsfokonbu && mq VALID

```

356: *
357: *
358: *
359: *
360: *
361: *
362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: *
370: *
371: *
372: *
373: *
374: *
375: *
376: *
377: *
378: *
379: *
380: *
381: *
382: *
383: *
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386: *
387: *
388: *
389: *
390: *
391: *
392: *
393: *
394: *
395: *
396: *
397: *
398: *
399: *
400: *

```

QUAL/MS-DOS Supporting Procedures and Functions

```

357: #REGION 1
358:
359:
360:
361:
362:
363:
364:
365:
366:
367:
368:
369:
370:
371:
372:
373:
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417:
418:
419:
420:
421:
422:

```

QUAL Function POPUPSHOW

```

FUNCTION popupshow
PARAMETERS errstr
IF NOT EXISTS("w_popnote")
  DEFINE WINDOW w_popnote
  FROM INT((SROW()-8)/2),INT((SCOL()-36)/2)
  TO INT((SROW()-8)/2)+7,INT((SCOL()-36)/2)+35;
  TITLE "One moment";
  FLOAT;
  CLOSE;
  SHADOW;
  DOUBLE;
  COLOR SCHEME 1
ENDIF
IF WVISIBLE("w_popnote")
  ACTIVATE WINDOW w_popnote SAME
ELSE
  ACTIVATE WINDOW w_popnote NOSHOW
ENDIF
@ 1,1 SAY errstr SIZE 3,31

IF NOT WVISIBLE("w_popnote")
  ACTIVATE WINDOW w_popnote
ENDIF
RETURN ""

```

QUAL Function POPUPHIDE

```

FUNCTION popuphide
PARAMETERS w
RELEASE WINDOW w_popnote
RETURN w

```

QUAL Function VALIDOBJ

```

FUNCTION validobj
PRIVATE msel,mvalid
mvalid = .F.
msel = SELECT()
SELECT quals

```

```

423:
424:
425:
426:
427:
428:
429:
430:
431:
432:
433:
434:
435:
436:
437:
438:
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454:
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457:
458:
459:
460:
461:
462:
463:
464:
465:

```

QUAL Function QUALDEL

```

SEEK mquals[mq,4]
IF FOUND()
  IF EMPTY(rules) AND EMPTY(ruleso)
    mvalid = .T.
  ELSE
    msg = ALLTRIM(STRTSTR(rules,"|",1))
    IF EMPTY(ruleso)
      msg = msg + IIF(EMPTY(msg), "", "|") + ALLTRIM(STRTSTR(rules
=> O,"|",1))
    ENDIF
    IF LEN(msg) > 120
      msg = SUBSTR(msg,1,120)
      msg = SUBSTR(msg,1,RAT(" ",msg)-1) + " , etc"
    ENDIF
    mvalid = .F.
    =errmsg("This object was used by rules: " + msg + ". Delete wa
=> S not allowed!!",2)
  ENDIF
  SELECT (msel)
  RETURN mvalid

```

FUNCTION qualdel
 PRIVATE msel
 msel = SELECT()
 SELECT quals
 SEEK mquals[mq,4]
 IF FOUND()
 = popupshow("deleting...")
 DELETE
 PACK
 = popuphide()
 ENDIF
 DO setquals
 SELECT (msel)
 RETURN
 *: EOF: QUAL.AC1


```

123: _ENDIF
124: m.compstat = SET("COMPATIBLE")
125: SET COMPATIBLE FOXPLUS
126:
127: *
128: *
129: *
130: *
131: *
132: *
133:
134:
135:
136:
137:
138:
139:
140:
141:
142:
143:
144:
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174:
175:
176:
177:
178:

```

MS-DOS Window definitions

```

IF NOT WEXIST("w_goal") ;
OR UPPER(WTITLE("w_goal")) == "w_goal.pjx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.scx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.mnx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.prg" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.frx" ;
OR UPPER(WTITLE("w_goal")) == "w_goal.qpr" ;
DEFINE WINDOW w_goal ;
FROM INT((SROW()-19)/2),INT((SCOL()-64)/2) ;
TO INT((SROW()-19)/2)+18,INT((SCOL()-64)/2)+63 ;
TITLE "Goal Object Editor" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF

```

GOAL/MS-DOS Screen Layout

```

IF WVISIBLE("w_goal")
ELSE
ACTIVATE WINDOW w_goal SAME
ENDIF
a 16,17 GET mbuttons ;
PICTURE "a*HN \<Add;\<OK;\<Cancel" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID _qsf0koptk()
a 1,1 GET mg ;
PICTURE "a&N" ;
FROM mgoals ;
SIZE 14,60 ;
DEFAULT 1 ;
VALID _qsf0koptkh() ;
COLOR SCHEME 2

```

```

179:
180:
181:
182:
183:
184:
185:
186:
187:
188:
189:
190:
191:
192:
193:
194:
195:
196:
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232:
233:
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235:
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237:
238:
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240:
241:
242:
243:
244:

```

IF NOT WVISIBLE("w_goal")
ACTIVATE WINDOW w_goal
ENDIF

READ CYCLE MODAL

RELEASE WINDOW w_goal

#REGION 0

IF m.talkstat = "ON"
SET TALK ON
ENDIF

IF m.compstat = "ON"
SET COMPATIBLE ON
ENDIF

ENDCASE

* * * * *

_QSF0KOPCM mbuttons VALID

Function Origin:

From Platform: Windows Record Number: 2

From Screen: GOAL, mbuttons

Variable: VALID Clause

Called By: Push Button

Object Type: 1

Snippet Number: 1

FUNCTION _qsf0kopcmm && mbuttons VALID

#REGION 1

DO CASE

CASE mbuttons = 1 && edit

IF EMPTY(mg)

DO edgoal

ENDIF

CASE mbuttons = 2 && quit

mok = .f.

CLEAR READ

ENDCASE

SHOW GETS

* * * * *

_QSF0KOPG7 mg VALID

Function Origin:

From Platform: Windows Record Number: 3

From Screen: GOAL, mg

Variable: VALID Clause

Called By: List

Object Type: 2

Snippet Number: 2

FUNCTION _qsf0kopg7 && mg VALID

#REGION 1

DO edgoal

245:
246:
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
270:
271:
272:
273:
274:
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280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291:
292:
293:
294:
295:
296:
297:
298:

_QSF0KOPTK
Function Origin:
From Platform: MS-DOS
From Screen: GOAL,
Variable: mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 6

FUNCTION _qsfoktopk && mbuttons VALID

```
#REGION 1
DO CASE
CASE mbuttons = 1
  DEACTIVATE WINDOW w_goal
  DO object.spr WITH "G"
  ACTIVATE WINDOW w_goal
  DO setgoals
CASE mbuttons = 2 && ok
  mok = .T.
  CLEAR READ
CASE mbuttons = 3 && cancel
  mok = .F.
  CLEAR READ
ENDCASE
SHOW GETS
```

_QSF0KOPXH
Function Origin:
From Platform: MS-DOS
From Screen: GOAL,
Variable: mg
Called By: VALID Clause
Object Type: List
Snippet Number: 4
Record Number: 7

FUNCTION _qsfokopxh && mg VALID

```
#REGION 1
DO edgoal
*: EOF: GOAL.ac1
```

[illegible]


```

123: L=ENDIF
124: m.compstat = SET("COMPATIBLE")
125: SET COMPATIBLE FOXPLUS
126: *
127: =>
128: *
129: *
130: *
131: *
132: *
133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: *
141: *
142: *
143: *
144: *
145: *
146: *
147: *
148: *
149: *
150: *
151: *
152: *
153: *
154: *
155: *
156: *
157: *
158: *
159: *
160: *
161: *
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: *
172: *
173: *
174: *
175: *
176: *
177: *
178: *

```

MS-DOS Window definitions

```

IF NOT WEXIST("w_displ") ;
OR UPPER(WTITLE("w_displ")) == "w_displ.pjx" ;
OR UPPER(WTITLE("w_displ")) == "w_displ.scx" ;
OR UPPER(WTITLE("w_displ")) == "w_displ.mnx" ;
OR UPPER(WTITLE("w_displ")) == "w_displ.prg" ;
OR UPPER(WTITLE("w_displ")) == "w_displ.frx" ;
OR UPPER(WTITLE("w_displ")) == "w_displ.qpr" ;
DEFINE WINDOW w_displ ;
FROM INT((SROW()-18)/2), INT((SCOL()-64)/2) ;
TO INT((SROW()-18)/2)+17, INT((SCOL()-64)/2)+63 ;
TITLE "Display Object Editor" ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF

```

DISPLAY/MS-DOS Screen Layout

```

#REGION 1
IF WISIBLE("w_displ")
ACTIVATE WINDOW w_displ SAME
ELSE
ACTIVATE WINDOW w_displ NOSHOWN
ENDIF
@ 15,29 GET mbuttons ;
PICTURE "a*HT OK;Cancel" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID qsf0korxz()
@ 15,11 GET mbutton ;
PICTURE "a*HN Add;Delete" ;
SIZE 1,8,1 ;
DEFAULT 1 ;
VALID_qsf0kos30()
@ 0,1 GET md ;
PICTURE "a&N" ;
FROM mdispl ;

```

```

179: SIZE 14,60 ;
180: DEFAULT 1 ;
181: VALID_qsf0kos6a() ;
182: COLOR SCHEME 2
183:
184: IF NOT WISIBLE("w_displ")
185: ACTIVATE WINDOW w_displ
186: ENDIF
187:
188: READ CYCLE MODAL
189:
190: RELEASE WINDOW w_displ
191:
192: #REGION 0
193: IF m.talkstat = "ON"
194: SET TALK ON
195: ENDIF
196: IF m.compstat = "ON"
197: SET COMPATIBLE ON
198: ENDIF
199:
200:
201:
202:
203:
204:
205:
206:
207:
208:
209:
210:
211:
212:
213:
214:
215:
216:
217:
218:
219:
220:
221:
222:
223:
224:
225:
226:
227:
228:
229:
230:
231:
232:
233:
234:
235:
236:
237:
238:
239:
240:
241:
242:
243:
244:

```

Function Origin:
From Platform: Windows
From Screen: DISPLAY,
Variable: mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 1

mbuttons VALID

Record Number: 2

```

FUNCTION _qsf0korj1 && mbuttons VALID
#REGION 1
DO CASE
CASE mbuttons = 1 && Edit
IF IEMPTY(md)
DO eddisplay
ENDIF
CASE mbuttons = 2 && Quit
mok = .T.
CASE mbuttons = .F.
CLEAR READ
ENDCASE

```

Function Origin:
From Platform: Windows
From Screen: DISPLAY,
Variable: md
Called By: VALID Clause
Object Type: List
Snippet Number: 2

md VALID

Record Number: 3

311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *

Object Type: List
Snippet Number: 5

FUNCTION _qsf0kos6a && md VALID
#REGION 1
DO eddisplay
*: EOF: DISPLAY.ac1

245: *
246: *
247: FUNCTION _qsf0kormij && md VALID
248: #REGION 1
249: DO eddisplay
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *
265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *
288: *
289: *
290: *
291: *
292: *
293: *
294: *
295: *
296: *
297: *
298: *
299: *
300: *
301: *
302: *
303: *
304: *
305: *
306: *
307: *
308: *
309: *
310: *

_QSF0KORZX mbutton VALID

Function Origin:

From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 6

FUNCTION _qsf0korzx && mbutton VALID

DO CASE
CASE mbutton = 1 && ok
mok = .f.
CASE mbutton = 2 && cancel
mok = .f.
ENDCASE

_QSF0KOS30 mbutton VALID

Function Origin:

From Platform: MS-DOS
From Screen: DISPLAY,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4
Record Number: 7

FUNCTION _qsf0kos30 && mbutton VALID

DO CASE
CASE mbutton = 1
APPEND BLANK
REPLACE area WITH area.area
CASE mbutton = 2
ENDCASE
SHOW GETS

_QSF0KOS6A md VALID

Function Origin:

From Platform: MS-DOS
From Screen: DISPLAY,
Variable: md
Called By: VALID Clause
Record Number: 8


```

230: PICTURE "a1";
231: WHEN m.adding = disease.id ;
232: DISABLE
233: @ 0,13 SAY "Name" ;
234: @ 1,4,0
235: @ 1,0 EDIT disease.descript ;
236: SIZE 7,6,0 ;
237: DEFAULT " " ;
238: SCROLL
239: @ 9,0 EDIT disease.treatment ;
240: SIZE 7,6,0 ;
241: DEFAULT " " ;
242: SCROLL
243: @ 17,29 GET mbuttons ;
244: PICTURE "a*HN \<OK;\<Cancel" ;
245: SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: VALID _qsf0kou0d ;
248: @ 0,0 SAY "id" ;
249: SIZE 1,2,0 ;
250: @ 0,4 GET disease.id ;
251: SIZE 1,5 ;
252: DEFAULT " " ;
253: DISABLE
254:
255: [IF NOT WVISIBLE("w_disease")
256: ACTIVATE WINDOW w_disease
257: ]ENDIF
258: READ CYCLE MODAL ;
259: WHEN _qsf0kou0d( )
260:
261: RELEASE WINDOW w_disease
262:
263: #REGION 0
264: [IF m.talkstat = "ON"
265: SET TALK ON
266: ]ENDIF
267: [IF m.compstat = "ON"
268: SET COMPATIBLE ON
269: ]ENDIF
270:
271:
272:
273:
274:
275:
276:
277:
278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:
289:
290:
291: FUNCTION _qsf0kou0d && mbuttons VALID
292: #REGION 1
293: DO CASE
294: CASE mbuttons = 1 && ok
295: SELECT disease

```

```

_qsf0kou0d
Function Origin:
From Platform: Windows
From Screen: DISEASE,
Variable: mbuttons
Called By: VALID Clause
Object Type: push Button
Snippet Number: 1
Record Number: 10

```

```

296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
317:
318:
319:
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346:
347:
348:
349:
350:
351:
352:
353:
354:
355:
356:
357:
358:
359:
360:
361:

```

```

GATHER MEMVAR MEMO
mok = .T.
CASE mbuttons = 2 && cancel
mok = .F.
ENDCASE
SHOW GETS

```

```

_qsf0kou3p
Function Origin:
From Platform: Windows
From Screen: DISEASE
Called By: READ Statement
Snippet Number: 2
Read Level When

```

```

FUNCTION _qsf0kou3p && Read Level When
* When Code from screen: DISEASE
*
#REGION 1
SET TOPIC TO "GOAL"
SHOW GET m.name ENABLE
CUROBJ = OBJNUM(m.name)
SHOW GETS

```

```

_qsf0kou0i
Function Origin:
From Platform: MS-DOS
From Screen: DISEASE,
Variable: mbuttons
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3
Record Number: 17

```

```

FUNCTION _qsf0kou0i && mbuttons VALID
#REGION 1
DO CASE
CASE mbuttons = 1 && ok
mok = .T.
CLEAR READ
CASE mbuttons = 2 && cancel
mok = .F.
CLEAR READ
ENDCASE
SHOW GETS

```

```

_qsf0kou0k
Function Origin:
Read Level When

```

DISEASE.AC1 10-3-94 3:00p

From Platform: MS-DOS
 From Screen: DISEASE
 Called By: READ Statement
 Snippet Number: 4

362: *
 363: *
 364: *
 365: *
 366: *
 367: *
 368: *
 369: *
 370: *
 371: *
 372: *
 373: *
 374: *
 375: *
 376: *
 377: *
 378: *
 379: *
 380: *
 381: *
 382: *
 383: *
 384: *
 385: *
 386: *
 387: *
 388: *
 389: *

FUNCTION _qsf0kouqk && Read Level When

* When Code from screen: DISEASE

#REGION 1

SET TOPIC TO "GOAL"

SHOW GET disease.name ENABLE

CUROBJ = OBJNUM(disease.name)

SHOW GETS

DISEASE/MS-DOS Supporting Procedures and Functions

#REGION 1
 *: EOF: DISEASE.ac1

```

1: *****
=> *****
2: *
3: * Procedure file: C:\CAMD2\KBEDIT\WORK\KBLDR.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
=> 2
7: * Last modified: 08/09/94 at 8:37:34
8: *
9: * Set by: QSF0KQC6T() (function in KBLDR.SPR)
10: * : QSF0KQCZG() (function in KBLDR.SPR)
11: *
12: * Uses: FACT.DBF
13: * : PREMISE.DBF
14: * : ACTION.DBF
15: * : RULE.DBF
16: * : KBHELP.DBF
17: *
18: * Indexes: FACT.IDX
19: * : PREMISE.IDX
20: * : ACTION.IDX
21: * : RULEAREA.IDX
22: * : SALIENCE.IDX
23: * : RULE.IDX
24: *
25: * Documented 15:00:57 FoxDoc versio
=> n 3.00a
26: *****
=> *****
27: * kbldr.prg
28: *
29: * Knowledge Base Loader
30: * for
31: * Medical Practice Support System
32: *
33: * $Revision: 1.1 $
34: * $Date: 92/05/04 11:10:24 $
35: * $Author: RoyMDobbins $
36: *
37: *
38: *
39: * PARAMETERS m.new
40: *
41: * Load a new knowledge base
42: *
43: * Objects from the new knowledge base are appended to the
44: * existing knowledge base files, or replace existing objects.
45: * Existing rulesets and their associated premise, action clauses
46: * are deleted first, before the new ruleset is loaded
47: * Other objects may only be edited, not replaced.
48: *
49: * PRIVATE m.exists
50: * PRIVATE m.unique
51: * PRIVATE m.word
52: * PRIVATE m.next
53: * PRIVATE m.newrecno
=> e current area record number
54: *
55: * check all the database exist at m.new directory.
56: * If any database was not define will be stop process.
57: *
58: * IF FILE(m.new + "dict.dbf")
59: * RETURN
60: * IF FILE(m.new + "val.dbf")
61: * RETURN

```

```

62: *
63: * IF FILE(m.new + "enum.dbf")
64: * RETURN
65: *
66: * IF FILE(m.new + "disease.dbf")
67: * RETURN
68: *
69: * IF FILE(m.new + "help.dbf")
70: * RETURN
71: *
72: * IF FILE(m.new + "area.dbf")
73: * RETURN
74: *
75: * IF FILE(m.new + "fact.dbf")
76: * RETURN
77: *
78: * IF FILE(m.new + "premise.dbf")
79: * RETURN
80: *
81: * IF FILE(m.new + "action.dbf")
82: * RETURN
83: *
84: * IF FILE(m.new + "rule.dbf")
85: * RETURN
86: *
87: * IF FILE(m.new + "goals.dbf")
88: * RETURN
89: *
90: * IF FILE(m.new + "display.dbf")
91: * RETURN
92: *
93: *
94: * Open the database
95: * SELECT 0
96: * USE fact INDEX fact
97: * SELECT 0
98: * USE premise INDEX premise
99: * SET RELATION TO fact INTO fact
100: * SELECT 0
101: * USE action INDEX action
102: * SELECT 0
103: * USE rule INDEX rulearea,salience,rule
104: * SET RELATION TO premise INTO premise, action INTO action
105: * SELECT area
106: * SET RELATION TO area INTO rule
107: *
108: * SELECT area
109: * m.newrecno = RECNO()
110: *
111: *
112: *
113: *
114: * update dict/enum/val databases
115: *
116: *
117: * SELECT dict
118: * GOTO BOTTOM
119: * m.qualid = id + 1
120: * SET ORDER TO 2
121: * SELECT 0
122: * USE (m.new + "dict") ALIAS newdict
123: *
124: * i = MAX( RECCOUNT(), 1 )
125: * PRIVATE mqid, mqidid
126: * DIMENSION mqid[i], mqidid[i]
127: *
128: * DO WHILE !EOF()

```

```

128: SCATTER MEMVAR
129: m.newid = m.id
130: mgid[ RECNOC() ] = m.id
131: SELECT dict
132: m.name = UPPER( TRIM( m.name ) )
133: IF LEN( m.name ) > LEN( name )
134:   m.name = SUBSTR( m.name, LEN( name ) )
135: ENDIF
136: SEEK m.name
137: IF FOUND()
138:   * item already exists
139:   * some fields cannot be edited - use existing values
140:   m.datatype = datatype
141:   m.exists = .T.
142:   m.id = id
143: ELSE
144:   m.exists = .F.
145:   m.id = m.id + m.qualid
146:   APPEND BLANK
147: ENDIF
148: GATHER MEMVAR
149: m.uid = m.id
150: IF m.datatype = "N"
151:   * update numeric type
152:   SELECT 0
153:   USE (m.new + "val") ALIAS newval
154:   LOCATE FOR id = m.newid
155:   SCATTER MEMVAR
156:   SELECT VAL
157:   SEEK m.uid
158:   IF !FOUND()
159:     APPEND BLANK
160:   ENDIF
161:   m.id = m.uid
162:   GATHER MEMVAR
163:   SELECT newval
164:   USE
165: ELSE
166:   * update enumerated types
167:   * You can only append additional enumerated values
168:   SELECT enum
169:   SEEK m.uid
170:   m.exists = FOUND()
171:   m.uord = 0
172:   IF m.exists
173:     * next available ordinal value
174:     COUNT WHILE id = m.uid .AND. !EOF() TO m.uord
175:   ENDIF
176:   SELECT 0
177:   USE (m.new + "enum") ALIAS newenum
178:   LOCATE FOR id = m.newid
179:   DO WHILE id = m.newid .AND. !EOF()
180:     SCATTER MEMVAR
181:     m.unique = .T.
182:     IF m.exists
183:       * existing element, ensure enumeration is new
184:       SELECT enum
185:       SEEK m.uid
186:       mexact = SET("EXACT")
187:       SET EXACT ON
188:       DO WHILE id = m.uid .AND. !EOF()
189:         IF enumerate = m.enumerate
190:           m.unique = .F.
191:           EXIT
192:         ENDIF
193:       DO WHILE !EOF()
194:         SCATTER MEMVAR MEMO
195:         mgid[ RECNOC() ] = m.id
196:         SELECT disease
197:         m.name = UPPER( TRIM( m.name ) )
198:         IF LEN( m.name ) > LEN( name )
199:           m.name = SUBSTR( m.name, LEN( name ) )
200:         ENDIF
201:         SEEK m.name
202:         IF FOUND()
203:           m.exists = .T.
204:           m.id = id
205:           m.name = name
206:         ELSE
207:           m.exists = .F.
208:           m.id = m.id + m.newid
209:           APPEND BLANK
210:         ENDIF
211:       GATHER MEMVAR MEMO
212:       m.name = name
213:       m.id = id
214:       m.name = name
215:       m.id = id
216:       m.name = name
217:       m.id = id
218:       m.name = name
219:       m.id = id
220:       m.name = name
221:       m.id = id
222:       m.name = name
223:       m.id = id
224:       m.name = name
225:       m.id = id
226:       m.name = name
227:       m.id = id
228:       m.name = name
229:       m.id = id
230:       m.name = name
231:       m.id = id
232:       m.name = name
233:       m.id = id
234:       m.name = name
235:       m.id = id
236:       m.name = name
237:       m.id = id
238:       m.name = name
239:       m.id = id
240:       m.name = name
241:       m.id = id
242:       m.name = name
243:       m.id = id
244:       m.name = name
245:       m.id = id
246:       m.name = name
247:       m.id = id
248:       m.name = name
249:       m.id = id
250:       m.name = name
251:       m.id = id
252:       m.name = name
253:       m.id = id
254:       m.name = name
255:       m.id = id
256:       m.name = name
257:       m.id = id
258:       m.name = name

```

```

193: SKIP
194: ENDDO
195: IF mexact = "OFF"
196:   SET EXACT OFF
197: ENDIF
198: SELECT newenum
199: ENDIF
200: IF m.unique
201:   APPEND BLANK
202:   m.id = m.uid
203:   m.uord = m.uord + 1
204:   m.ord = m.uord
205:   GATHER MEMVAR
206:   SELECT newenum
207: ENDIF
208: SKIP
209: ENDDO
210: USE
211: ENDIF
212: SELECT newdict
213: mgid[reco()] = m.uid
214: SKIP
215: ENDDO
216: USE
217: SELECT dict
218: SET ORDER TO 1
219: SET ORDER TO 1
220: *
221: * update disease file
222: *
223: *
224: *
225: *
226: SELECT disease
227: GOTO BOTTOM
228: m.newid = id
229: m.newid = MAX(m.newid, 10000)
230: m.newid = m.newid + 1
231: SET ORDER TO 2
232: SELECT 0
233: USE (m.new + "disease") ALIAS newdis
234: i = MAX( RECCOUNT(), 1 )
235: PRIVATE mgid, mguid
236: DIMENSION mgid[ i ], mguid[ i ]
237: DO WHILE !EOF()
238:   SCATTER MEMVAR MEMO
239:   mgid[ RECNOC() ] = m.id
240:   SELECT disease
241:   m.name = UPPER( TRIM( m.name ) )
242:   IF LEN( m.name ) > LEN( name )
243:     m.name = SUBSTR( m.name, LEN( name ) )
244:   ENDIF
245:   SEEK m.name
246:   IF FOUND()
247:     m.exists = .T.
248:     m.id = id
249:     m.name = name
250:   ELSE
251:     m.exists = .F.
252:     m.id = m.id + m.newid
253:     APPEND BLANK
254:   ENDIF
255:   GATHER MEMVAR MEMO
256:   m.name = name
257:   m.id = id
258:   m.name = name

```

&& add a new enum
&& assign next ordinal value
&& update enum record

&& update id

&& restore primary index

&& next available id
&& starting at 10000
&& name order

&& load new disease
&& new item name

&& add a new disease
&& update the disease record


```

259: SELECT newdis      && update id
260:   mguid[reco(j)] = m.id
261:   SKIP
262: ENDDO
263: USE
264: SELECT disease
265: SET ORDER TO 1
266:
267: *
268: *
269: * update help file
270: *
271: *
272: *
273: SELECT 0
274: USE kbhelp ALIAS HELP
275: SELECT 0
276: USE (m.new + "help") ALIAS newhelp
277:
278: DO WHILE !EOF()
279:   SCATTER MEMVAR
280:   m.details = details
281:   m.topic = UPPER(m.topic)
282:   SELECT HELP
283:   LOCATE FOR m.topic = UPPER(TOPIC)
284:   IF !FOUND()
285:     APPEND BLANK
286:     ENDF
287:   GATHER MEMVAR
288:   REPLACE details WITH m.details
289:   SELECT newhelp
290:   SKIP
291: ENDDO
292: USE
293: SELECT HELP
294: USE
295:
296: *
297: *
298: * Get the new knowledge base descriptor
299: *
300: *
301: *
302: SELECT 0
303: USE (m.new + "area") ALIAS newarea
304: SCATTER MEMVAR
305: USE
306:
307: * Lookup knowledge base name (case insensitive)
308: SELECT area
309: LOCATE FOR LOWER(STR(m.name)) = LOWER( TRIM( m.name ) ) && lookup by
310: name
311: IF FOUND()
312:   m.area = area
313: ELSE
314:   * new knowledge base
315:   GOTO BOTTOM
316:   m.area = area + 1
317:   APPEND BLANK
318: ENDF
319: m.newreco = RECO()
320: GATHER MEMVAR
321:
322: *
323: * delete existing rules in knowledge base

```

```

324: *
325: *
326: SELECT rule
327: SEEK m.area
328: DO WHILE area = m.area .AND. !EOF()
329:   SELECT premise
330:   SEEK rule.premise
331:   DO WHILE clause = rule.premise
332:     IF EMPTY( premise.op )
333:       SELECT fact
334:       DELETE FOR clause = premise.fact && delete all premise cla
335:     LENDIF
336:     SELECT premise
337:     DELETE
338:     SKIP
339:   ENDDO
340:   SELECT action
341:   DELETE FOR clause = rule.action && delete all action clauses
342:   DELETE FOR clause = rule.else && delete all else clauses
343:   SELECT rule
344:   DELETE
345:   SKIP
346: ENDDO
347:
348: *
349: * prepare fact database
350: *
351: *
352: *
353: SELECT fact
354: PACK
355: GOTO BOTTOM
356: m.fact = clause
357:
358: * update fact clauses
359: SELECT 0
360: USE (m.new + "fact")
361: COPY TO "tempxxxx"
362: USE ("tempxxxx")
363: REPLACE ALL clause WITH m.fact + clause
364: REPLACE ALL id WITH ;
365: IF (OBJECT = "D" ; mguid[ ASCAN(mgid, id) ], ;
366:   mguid[ ASCAN(mgid, id) ], ;
367:   * update any indirect references
368:   GOTO TOP
369:
370: DO WHILE !EOF()
371:   m.val = VAL
372:   FOR i = 1 TO 2
373:     K = AT( "0", m.val, i )
374:     IF K = 0
375:       EXIT
376:     LENDIF
377:     m.id = VAL ( SUBSTR( m.val, K + 1 ) )
378:     m.newid = mguid[ ASCAN( mgid, m.id ) ]
379:     m.val = STRTRAN( m.val, LTRIM( STR( m.id ) ), LTRIM( STR( m.ne
380:   => wid ) )
381:   NEXT
382:   REPLACE VAL WITH m.val
383:   SKIP
384: ENDDO
385:
386: USE
387: SELECT fact
388: APPEND FROM ("tempxxxx") && load new facts

```

```

388: DELETE FILE "tempxxxx.dbf"      && remove temporary files
389: *-----
390: *
391: * prepare premise database
392: *-----
393: *
394: *
395: SELECT premise
396: PACK
397: GOTO BOTTOM
398: m.premise = clause
399: *
400: * update premises clauses
401: SELECT 0
402: USE (m.new + "premise")
403: COPY TO "tempxxxx"
404: USE ("tempxxxx")
405: REPLACE ALL clause WITH m.premise + clause
406: REPLACE ALL fact WITH m.fact + fact FOR EMPTY(op)
407: USE
408: SELECT premise
409: APPEND FROM ("tempxxxx")
410: DELETE FILE "tempxxxx.dbf"
411: *-----
412: *
413: * prepare action database
414: *-----
415: *
416: *
417: *
418: SELECT action
419: PACK
420: GOTO BOTTOM
421: m.action = clause
422: *
423: * update action clauses
424: SELECT 0
425: USE (m.new + "action")
426: COPY TO "tempxxxx"
427: USE ("tempxxxx")
428: REPLACE ALL ;
429:   clause WITH m.action + clause
430: REPLACE ALL id WITH ;
431:   IIF(OBJECT = "D", mguid[ ASCAN(mgid, id) ], ;
432:   mguid[ ASCAN(mgid, id) ])
433: * update any indirect references
434: GOTO TOP
435: *
436: *
437: *
438: *
439: *
440: *
441: *
442: *
443: *
444: *
445: *
446: *
447: *
448: *
449: *
450: *
451: *
452: *

```

```

453: DELETE FILE "tempxxxx.dbf"      && remove temporary files
454: *-----
455: *
456: * update rulebase
457: *-----
458: *
459: *
460: * Count the rules in new knowledge base
461: SELECT 0
462: USE (m.new + "rule")
463: REPLACE area.rules WITH RECOUNT()
464: *
465: *
466: *
467: *
468: *
469: *
470: *
471: *
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
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504: *
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506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *

```

```

453: COPY TO "tempxxxx"
454: USE ("tempxxxx")
455: REPLACE ALL ;
456:   premise WITH m.premise + premise, ;
457:   action WITH m.action + action, ;
458:   ELSE WITH IIF( ELSE > 0, m.action + ELSE, 0 ), ;
459:   area WITH m.area
460: USE
461: SELECT rule
462: PACK
463: APPEND FROM ("tempxxxx")
464: DELETE FILE "tempxxxx.dbf"
465: IF FILE("tempxxxx.fpt")
466:   DELETE FILE "tempxxxx.fpt"
467: ENDIF
468: *-----
469: *
470: * prepare goals
471: *-----
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
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507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *

```

```

453: SELECT 0
454: USE (m.new + "goals")
455: COPY TO "tempxxxx"
456: USE ("tempxxxx")
457: REPLACE ALL id WITH ;
458:   IIF( OBJECT = "D", mguid[ ASCAN(mgid, id) ], ;
459:   mguid[ ASCAN(mgid, id) ])
460: REPLACE ALL area WITH m.area
461: USE
462: SELECT goals
463: DELETE FOR area = m.area
464: PACK
465: APPEND FROM ("tempxxxx")
466: DELETE FILE "tempxxxx.dbf"
467: *-----
468: *
469: * prepare display list
470: *-----
471: *
472: *
473: *
474: *
475: *
476: *
477: *
478: *
479: *
480: *
481: *
482: *
483: *
484: *
485: *
486: *
487: *
488: *
489: *
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500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *
508: *
509: *
510: *
511: *
512: *
513: *
514: *
515: *
516: *
517: *

```

```

453: SELECT 0
454: USE (m.new + "display")
455: COPY TO "tempxxxx"
456: USE ("tempxxxx")
457: REPLACE ALL id WITH ;
458:   IIF( OBJECT = "D", mguid[ ASCAN(mgid, id) ], ;
459:   mguid[ ASCAN(mgid, id) ])
460: REPLACE ALL area WITH m.area
461: USE
462: SELECT DISPLAY
463: DELETE FOR area = m.area
464: PACK

```

```

518: APPEND FROM ("tempxxxx")
519: DELETE FILE "tempxxxx.dbf"
520:
521: *-----
522: * * prepare qualifiers
523: *
524: *-----
525: *-----
526: SELECT quals
527: DELETE FOR area = m.area
528: PACK
529: COPY STRUCTURE TO (m.new + "quals")
530: SELECT 0
531: USE (m.new + "quals") ALIAS newquals
532: INDEX ON id TO (m.new + "quals")
533: SET INDEX TO (m.new + "quals")
534:
535: *-----
536: * * generate rule ==> qualifier cross-references
537: *
538: *-----
539: *-----
540: SELECT rule
541: SEEK m.area
542:
543: && set filters
544:
545: DO WHILE area = m.area .AND. !EOF() && process the rulebase
546: SELECT premise
547: * process rule input cross-references
548: *-----
549: *-----
550: *-----
551: *-----
552: *-----
553: *-----
554: *-----
555: *-----
556: *-----
557: *-----
558: *-----
559: *-----
560: *-----
561: *-----
562: *-----
563: *-----
564: *-----
565: *-----
566: *-----
567: *-----
568: *-----
569: *-----
570: *-----
571: *-----
572: *-----
573: *-----
574: *-----
575: *-----
576: *-----
577: *-----
578: *-----
579: *-----
580: *-----

```

```

581:
582:
583:
584: => + m.s
585:
586:
587:
588:
589:
590:
591:
592:
593:
594:
595:
596:
597:
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599:
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631:
632:
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638:
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640:
641:
642:
643:
644:
645:

```

```

646: APPEND FROM (m.new + "quals")
647: DELETE FILE (m.new + "quals.dbf")
648: DELETE FILE (m.new + "quals.idx")
649: DELETE FILE (m.new + "quals.fpt")
650: DELETE FILE (m.new + "area.dbf")
651: DELETE FILE (m.new + "rule.dbf")
652: DELETE FILE (m.new + "rule.dbt")
653: DELETE FILE (m.new + "premise.dbf")
654: DELETE FILE (m.new + "fact.dbf")
655: DELETE FILE (m.new + "fact.dbt")
656: DELETE FILE (m.new + "action.dbf")
657: DELETE FILE (m.new + "action.dbt")
658: DELETE FILE (m.new + "disease.dbf")
659: DELETE FILE (m.new + "disease.dbt")
660: DELETE FILE (m.new + "dict.dbf")
661: DELETE FILE (m.new + "val.dbf")
662: DELETE FILE (m.new + "enum.dbf")
663: DELETE FILE (m.new + "goals.dbf")
664: DELETE FILE (m.new + "display.dbf")
665: DELETE FILE (m.new + "help.dbf")
666: DELETE FILE (m.new + "help.dbt")
667:
668: SELECT area
669: GOTO m.newrecno
670:
671: * close unused database
672: SELECT fact
673: USE
674: SELECT premise
675: USE
676: SELECT action
677: USE
678: SELECT rule
679: USE
680:
681: <---RETURN
682:
683: *: EOF: KBLDR.act

```

```
1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
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35: *
36: *
37: *
38: *
39: *
40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *
```

08/09/94	ACTION.SPR	09:39:14
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description:		
This program was automatically generated by GENSCRN.		

```
DO CASE
CASE _WINDOWS
```

```
#REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat
```

```
IF SET("TALK") = "ON"
```

```
SET TALK OFF
```

```
m.talkstat = "ON"
```

```
ELSE
```

```
m.talkstat = "OFF"
```

```
ENDIF
```

```
m.compstat = SET("COMPATIBLE")
```

```
SET COMPATIBLE FOXPLUS
```

```
m.rborder = SET("READBORDER")
```

```
SET readborder ON
```

```
Windows Window definitions
```

```
IF NOT WEXIST("w_act") ;
OR UPPER(WTITLE("w_act")) == "w_act.pjx" ;
OR UPPER(WTITLE("w_act")) == "w_act.scx" ;
OR UPPER(WTITLE("w_act")) == "w_act.mnx" ;
OR UPPER(WTITLE("w_act")) == "w_act.prg" ;
OR UPPER(WTITLE("w_act")) == "w_act.frx" ;
OR UPPER(WTITLE("w_act")) == "w_act.qpr" ;
DEFINE WINDOW w_act ;
AT 0.000,0.000 ;
SIZE 14.500,57.250 ;
TITLE "Action [THEN] Editor" ;
FONT "Terminal", 8 ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(,,0,255,255) ;
MOVE WINDOW w_act CENTER
```

```
ENDIF
```

ACTION/Windows Setup Code - SECTION 2

```
#REGION 1
EXTERNAL ARRAY act
PRIVATE mselect, mok
mselect = SELECT()
SELECT action
```

```
IF EOF()
= errmsg("No < THEN > Statement !!!",1)
```

```
RETURN
```

```
ENDIF
```

ACTION/Windows Screen Layout

```
#REGION 1
IF WVISIBLE("w_act")
ACTIVATE WINDOW w_act SAME
ELSE
ACTIVATE WINDOW w_act NOSHOW
ENDIF
```

```
@ 3.000,47.500 GET mbuttons ;
```

```
PICTURE "a*VN \<Edit;\<Quit" ;
```

```
SIZE 3.000,7.500,1.083 ;
```

```
DEFAULT 1 ;
```

```
FONT "Terminal", 8 ;
```

```
VALID _qsf0kox5v()
```

```
@ 1.750,2.500 GET ma ;
```

```
PICTURE "a&N" ;
```

```
FROM act ;
```

```
SIZE 10.500,43.375 ;
```

```
DEFAULT 1 ;
```

```
FONT "Terminal", 8 ;
```

```
VALID _qsf0kox9d()
```

```
IF NOT WVISIBLE("w_act")
```

```
ACTIVATE WINDOW w_act
```

```
ENDIF
```

```
READ CYCLE MODAL
```

```
RELEASE WINDOW w_act
```

```

118: #REGION 0
119: SET readborder &rborder
120:
121: IF m.talkstat = "ON"
122: SET TALK ON
123: ENDIF
124: IF m.compstat = "ON"
125: SET COMPATIBLE ON
126: ENDIF
127:
128: *
129: *
130: *
131: *
132: *
133: *
134: *
135: *
136: *
137: #REGION 1
138: SELECT (mselect)
139: RETURN
140:
141: CASE _DOS
142:
143: #REGION 0
144: REGIONAL m.curarea, m.talkstat, m.compstat
145:
146: IF SET("TALK") = "ON"
147: SET TALK OFF
148: m.talkstat = "ON"
149: ELSE
150: m.talkstat = "OFF"
151: ENDIF
152: m.compstat = SET("COMPATIBLE")
153: SET COMPATIBLE FOXPLUS
154:
155: *
156: *
157: *
158: *
159: *
160: *
161: *
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: *
172: *
173: *

```

```

174: TO INT((SROW()-15)/2)+14,INT((SCOL()-76)/2)+75 ;
175: TITLE "Action Editor" ;
176: FLOAT ;
177: CLOSE ;
178: SHADOW ;
179: NOMINIMIZE ;
180: COLOR SCHEME 1
181:
182: *
183: *
184: *
185: *
186: *
187: *
188: *
189: *
190: *
191: #REGION 1
192: EXTERNAL ARRAY act
193: PRIVATE mselect, mok
194: mselect = SELECT()
195: SELECT action
196: IF EOF()
197: GOTO BOTTOM
198: m.clause = IIF(RECCOUNT() = 0, 0, clause) + 1
199: m.action = addnewact()
200: ENDIF
201:
202: *
203: *
204: *
205: *
206: *
207: *
208: *
209: *
210: *
211: #REGION 1
212: IF WVISIBLE("w_act")
213: ACTIVATE WINDOW w_act SAME
214: ELSE
215: ACTIVATE WINDOW w_act NOSHOW
216: ENDIF
217: @ 5,64 GET mbuttons ;
218: PICTURE "a*VT \<Delete;\<OK;\<Cancel" ;
219: SIZE 1,8,1 ;
220: DEFAULT 1 ;
221: VALID qsf0koxva()
222: @ 1,64 GET mebutton ;
223: PICTURE "a*VN \<Edit" ;
224: SIZE 1,8,1 ;
225: DEFAULT 1 ;
226: WHEN ma > 0 ;
227: VALID qsf0koy5o()
228: @ 3,64 GET minsbutton ;
229: PICTURE "a*VN \<Add" ;
230: SIZE 1,8,1 ;

```

ACTION/Windows Cleanup Code

ACTION/MS-DOS Screen Layout

```

CASE mbuttons = 1  && Edit
  IF ma > 0
    DO edact
  ENDIF
CASE mbuttons = 2  && Quit
  CLEAR READ
ENDCASE

```

```

 ma VALID
Function Origin:
From Platform: Windows
From Screen: ACTION,
Variable: ma Record Number: 3
Called By: VALID Clause
Object Type: List
Snippet Number: 2

```

```

FUNCTION _qsf0kox9d  && ma VALID
#REGION 1
DO edact

```

```

_qsf0koxva
Function Origin:
From Platform: MS-DOS
From Screen: ACTION,
Variable: mbuttons Record Number: 6
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 3

```

```

FUNCTION _qsf0koxva  && mbuttons VALID
#REGION 1
DO CASE
CASE mbuttons = 1  && DELETE
  SEEK rule.action
  DO WHILE clause = rule.action
    DELETE
    SKIP
  ENDDO
PACK
mok = .F.
CASE mbuttons = 2  && ok
mok = .T.
CASE mbuttons = 3  && cancel
mok = .F.
ENDCASE

```

```

_qsf0kox50
Function Origin:
From Platform: MS-DOS
mebutton VALID

```

291: 292: 293: 294: 295: 296: 297: 298: 299: 300: 301: 302: 303: 304: 305: 306: 307: 308: 309: 310: 311: 312: 313: 314: 315: 316: 317: 318: 319: 320: 321: 322: 323: 324: 325: 326: 327: 328: 329: 330: 331: 332: 333: 334: 335: 336: 337: 338: 339: 340: 341: 342: 343: 344: 345: 346: 347: 348: 349: 350: 351: 352: 353: 354: 355: 356:

```

DEFAULT 1;
VALID _qsf0kox8a()
@ 1,1 GET ma;
PICTURE "a&n";
FROM act;
SIZE 10,61;
DEFAULT 1;
VALID _qsf0koxcp();
COLOR SCHEME 2

```

```

IF NOT WISIBLE("w act")
  ACTIVATE WINDOW w_act
ENDIF

```

READ CYCLE MODAL

RELEASE WINDOW w_act

#REGION 0

```

IF m.talkstat = "ON"
  SET TALK ON
ENDIF

```

```

IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF

```

```

ACTION/MS-DOS Cleanup Code

```

```

#REGION 1
SELECT (mselect)
RETURN

```

ENDCASE

```

_qsf0kox5v
Function Origin:
From Platform: Windows
From Screen: ACTION,
Variable: mbuttons Record Number: 2
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 1

```

```

FUNCTION _qsf0kox5v  && mbuttons VALID
#REGION 1
DO CASE

```

230: 231: 232: 233: 234: 235: 236: 237: 238: 239: 240: 241: 242: 243: 244: 245: 246: 247: 248: 249: 250: 251: 252: 253: 254: 255: 256: 257: 258: 259: 260: 261: 262: 263: 264: 265: 266: 267: 268: 269: 270: 271: 272: 273: 274: 275: 276: 277: 278: 279: 280: 281: 282: 283: 284: 285: 286: 287: 288: 289: 290:

From Screen: ACTION, Record Number: 7

Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4

357:

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410:

411:

412:

413:

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416:

417:

418:

419:

420:

421:

422:

FUNCTION _qsf0koy5o && mbutton VALID

#REGION 1
DO edact

_qsf0koy8a minsbutton VALID

Function Origin:

From Platform: MS-DOS
From Screen: ACTION, Record Number: 8
Variable: minsbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 5

FUNCTION _qsf0koy8a && minsbutton VALID

#REGION 1
PRIVATE m.sel

m.sel = SELECT()
m.action = rule.action

SELECT action

APPEND BLANK

REPLACE clause WITH m.action

DO clause.spr WITH m.action

IF EMPTY(op) AND EMPTY(OBJECT) AND EMPTY(id)

DELETE

PACK

ENDIF

SELECT (m.sel)

DO setact

*show get mbutton enable

*show gets

_qsf0koycp ma VALID

Function Origin:

From Platform: MS-DOS
From Screen: ACTION, Record Number: 9
Variable: ma
Called By: VALID Clause
Object Type: List
Snippet Number: 6

FUNCTION _qsf0koycp && ma VALID

#REGION 1
DO edact

ACTION/MS-DOS Supporting Procedures and Functions

423:

424:

425:

426:

427:

428:

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456:

457:

458:

459:

460:

461:

462:

463:

#REGION 1

PROCEDURE edact

EXTERNAL ARRAY actr

SET TOPIC TO "EDIT"

SELECT "ACTION"

IF actr[ma] > 0

GOTO actr[ma]

ENDIF

m.clause = rule.action

DO clause.spr

DO setact

SHOW GETS

mtopic = ALIAS()

SET TOPIC TO &mtopic

RETURN

FUNCTION addnewact

PRIVATE m.sel

m.sel = SELECT()

SELECT action

GOTO BOTTOM

m.action = IIF(EOF(),0,clause) + 1

DO clause.spr WITH m.action

SEEK m.action

IF FOUND()

SELECT rule

REPLACE action WITH m.action

ENDIF

SELECT (m.sel)

DO setact

RETURN

*: EOF: ACTION.ac1

08/09/94	ACTELSE.SPR	09:39:18
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description: This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *

```

```

DO CASE
CASE _WINDOWS

```

```

#REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat

```

```

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF

```

```

m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT WEXIST("w_act") ;
OR UPPER(WTITLE("w_act")) == "w_act.pjx" ;
OR UPPER(WTITLE("w_act")) == "w_act.scx" ;
OR UPPER(WTITLE("w_act")) == "w_act.mnx" ;
OR UPPER(WTITLE("w_act")) == "w_act.prg" ;
OR UPPER(WTITLE("w_act")) == "w_act.frx" ;
OR UPPER(WTITLE("w_act")) == "w_act.qpr" ;
DEFINE WINDOW w_act ;
AT 0.000 0.000 ;
SIZE 14.333,57.000 ;
TITLE "Action [ELSE] se) Editor" ;
FONT "Terminal", 8 ;
FLOAT ;
CLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR RGB(,0,255,255) ;
MOVE WINDOW w_act CENTER

```

```

62: _ENDIF

```

ACTELSE/Windows Setup Code - SECTION 2

```

*
*
*
*
*
*
#REGION 1
EXTERNAL ARRAY actelse
PRIVATE mselect, mok
mselect = SELECT()
SELECT action
IF EOF()
=errmsg("No <Else> statement !!!",1)
ENDIF

```

ACTELSE/Windows Screen Layout

```

*
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_act")
ACTIVATE WINDOW w_act SAME
ELSE
ACTIVATE WINDOW w_act NOSHOW
ENDIF
@ 4.333,47.750 GET mbuttons ;
PICTURE "g*VN \<edit>\<quit>" ;
SIZE 2.583,7.500,1.083 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _gsf0kp07d()
@ 2.000,2.375 GET me ;
PICTURE "a&n" ;
FROM actelse ;
SIZE 10.500,43.250 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID _gsf0kp0ar()

IF NOT WVISIBLE("w_act")
ACTIVATE WINDOW w_act
ENDIF

```

```

READ CYCLE MODAL
RELEASE WINDOW w_act
#REGION 0

```



```

_QSF0KP0W3      mebutton VALID
Function Origin:
From Platform:   MS-DOS
From Screen:     ACTELSE.

```

Variable: mebutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 4

FUNCTION _qsf0kp0w3 && mebutton VALID

#REGION 1
 DO edelse

_qsf0kp0yp minsbutton VALID

Function Origin:

From Platform: MS-DOS
 From Screen: ACTELSE, Record Number: 8
 Variable: minsbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 5

FUNCTION _qsf0kp0yp && minsbutton VALID

#REGION 1
 PRIVATE m.sel
 m.sel = SELECT()
 SELECT action
 IF rule.else = 0
 GOTO BOTTOM
 m.clause = IIF(RECCOUNT() = 0, 0, clause) + 1
 = addresselse()
 -ELSE

m.action = rule.else
 APPEND BLANK
 REPLACE clause WITH m.action
 DO clause.spr WITH m.action
 IF EMPTY(op) AND EMPTY(OBJECT) AND EMPTY(id)
 DELETE
 PACK
 ENDIF
 SELECT (m.sel)
 DO setelse
 SHOW GETS

_qsf0kp13m me VALID

Function Origin:

From Platform: MS-DOS
 From Screen: ACTELSE, Record Number: 9
 Variable: me
 Called By: VALID Clause
 Object Type: List
 Snippet Number: 6

423: FUNCTION _qsf0kp13m && me VALID
 424: #REGION 1
 425: DO edelse
 426:
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ACTELSE/MS-DOS Supporting Procedures and Functions

#REGION 1

ACTELSE Procedure EDELSE

PROCEDURE edelse

DO CASE

CASE DOS

EXTERNAL ARRAY actelser

SET TOPIC TO "EDIT"

SELECT "ACTION"

IF actelser[me] > 0

GOTO actelser[me]

ENDIF

m.clause = rule.else

DO clause.spr

DO setelse

SHOW GETS

mtopic = ALIAS()

SET TOPIC TO &mtopic

RETURN

CASE WINDOWS

EXTERNAL ARRAY actelser

SET TOPIC TO "EDIT"

SELECT "ACTION"

IF actelser[me] > 0

GOTO actelser[me]

ENDIF

m.clause = rule.else

DO clause.spr

DO setelse

SHOW GETS

mtopic = ALIAS()

SET TOPIC TO &mtopic

RETURN

ENDCASE

ACTELSE Procedure ADDELSE

PROCEDURE addelse

```

489: DO CASE
490: CASE DOS
491: EXTERNAL ARRAY actelser
492: SET TOPIC TO "ADD"
493: SELECT "ACTION"
494: SCATTER MEMVAR BLANK
495: m.clause = rule.else
496: DO clause.spr
497: DO setelse
498: SHOW GETS
499: mtopic = ALIAS()
500: SET TOPIC TO &mtopic
501: RETURN
502:
503: CASE WINDOWS
504: EXTERNAL ARRAY actelser
505: SET TOPIC TO "ADD"
506: SELECT "ACTION"
507: SCATTER MEMVAR BLANK
508: m.clause = rule.else
509: DO clause.spr
510: DO setelse
511: SHOW GETS
512: mtopic = ALIAS()
513: SET TOPIC TO &mtopic
514: RETURN
515:
516: ENDCASE
517:
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525:
526: FUNCTION addnewelse
527: PRIVATE m.sel
528: m.sel = SELECT()
529: SELECT action
530: m.action = m.clause
531: DO clause.spr WITH m.action
532: SEEK m.action
533: IF FOUND()
534: SELECT rule
535: REPLACE ELSE WITH m.action
536: ENDIF
537: SELECT (m.sel)
538: DO setelse
539: RETURN
540: *: EOF: ACTELSE.ac1

```

ACTELSE Function ADDNEWELSE

CLAUSE/Windows Screen Layout

CLAUSE.AC1 10-3-94 3:01p


```

362: IF WVISIBLE("w_clause")
363:   ACTIVATE WINDOW w_clause SAME
364: ELSE
365:   ACTIVATE WINDOW w_clause NOSHOW
366: ENDIF
367: @ 10,1 SAY "<Value>";
368: SIZE 1,7,0
369: @ 4,1 SAY "<Object>";
370: SIZE 1,8,0
371: @ 11,1 EDIT m_val;
372: SIZE 7,64,0;
373: DEFAULT " ";
374: SCROLL;
375: DISABLE
376: @ 4,10 GET mobj;
377: SIZE 1,37;
378: DEFAULT " ";
379: DISABLE
380: @ 1,1 SAY "Type";
381: SIZE 1,4,0
382: @ 6,10 GET m_op;
383: PICTURE "a" "<?>";
384: SIZE 3,6;
385: DEFAULT " ";
386: COLOR SCHEME 1,2
387: @ 0,10 GET mtype;
388: PICTURE "a" "Qualifier;Goal";
389: SIZE 3,11;
390: DEFAULT "Qualifier";
391: VALID qsfokp5hs();
392: COLOR SCHEME 1,2
393: @ 10,1 GET minval;
394: PICTURE "a*1VN ";
395: SIZE 1,7,1;
396: DEFAULT 0;
397: VALID qsfokp5lz();
398: @ 4,1 GET minbutton;
399: PICTURE "a*1VN ";
400: SIZE 1,8,1;
401: DEFAULT 0;
402: VALID qsfokp5q1();
403: @ 1,53 GET mbuttons;
404: PICTURE "a*VT \<OK>\<Cancel>";
405: SIZE 1,8,1;
406: DEFAULT 1;
407: VALID qsfokp5uc();
408: @ 7,1 SAY "Operator";
409: SIZE 1,8,0
410:
411: IF NOT WVISIBLE("w_clause")
412:   ACTIVATE WINDOW w_clause
413: ENDIF
414:
415: READ CYCLE MODAL
416:
417: RELEASE WINDOW w_clause
418:
419: #REGION 0
420: IF m.talkstat = "ON"
421:   SET TALK ON
422: ENDIF
423: IF m.compstat = "ON"
424:   SET COMPATIBLE ON
425: ENDIF
426:

```

```

428: =>
429: =>
430:
431: =>
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488:

```

CLAUSE/MS-DOS Cleanup Code

```

#REGION 1
IF mok
  IF m.adding
    APPEND BLANK
    REPLACE clause WITH m_clause
  ENDIF
  m_val = ALLTRIM(m_val)
  IF m_tag = "IT" OR LEN(m_val) > LEN(VAL)
    REPLACE TEXT WITH m_val, TAG WITH "IT", VAL WITH " "
  ENDIF
  IF LEFT(mtype,1) = "G"
    m_temp = rule.goals
    m_search = insnewid(am_temp,m_id)
    IF !m_search
      m_cur = SELECT()
      SELECT rule
      REPLACE goals WITH m_temp
      SELECT (m_cur)
      RELEASE mame m_cur
    ENDIF
  ELSE
    m_temp = rule.qual
    m_search = insnewid(am_temp,m_id)
    IF !m_search
      m_cur = SELECT()
      SELECT rule
      REPLACE quals WITH m_temp
      SELECT (m_cur)
      RELEASE mame m_cur
    ENDIF
  ENDIF
  IF mrecno[1] > 0
    SELECT dict
    GOTO mrecno[1]
  ENDIF
  IF mrecno[2] > 0
    SELECT disease
    GOTO mrecno[2]
  ENDIF
  SELECT (mselect)
  RETURN
ENDIF
ENDCASE

```

_QSF0KP3SZ minval VALID
Function Origin:

```

489: *
490: *
491: * From Platform: Windows
492: * Variable: minval
493: * Called By: VALID Clause
494: * Snippet Number: 1
495: *
496: *
497: *
498: * FUNCTION _qsf0kp3sz && minval VALID
499: * #REGION 1_
500: * DO CASE
501: * CASE m.object = "S"
502: * CASE dict.datatype = "N" .OR. dict.datatype = "C"
503: * SHOW GET m.val ENABLE
504: * CURSOR = OBJNUM(m.val)
505: * CASE dict.datatype = "L" .OR. dict.datatype = "E" .OR. dict.datatype
506: * => pe = "M"
507: * SELECT enum
508: * BROWSE FOR id = dict.id NOEDIT
509: * m.val = ALLTRIM(enumerate)
510: * SELECT (mselect)
511: * ENDCASE
512: * CASE m.object = "D"
513: * SHOW GET m.val ENABLE
514: * CURSOR = OBJNUM(m.val)
515: * ENDCASE
516: * SHOW GETS
517: *
518: *
519: *
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: * FUNCTION _qsf0kp3x2 && minvbutton VALID
534: * #REGION 1_
535: * PRIVATE msel
536: * msel = SELECT(
537: * DO CASE
538: * CASE m.object = "S"
539: * SELECT dict
540: * IF datatype = "N" .OR. datatype = "C"
541: * SHOW GET m.val ENABLE
542: * ELSE
543: * SHOW GET m.val DISABLE
544: * ENDF
545: * CASE m.object = "D"
546: * SELECT disease
547: * SHOW GET m.val ENABLE
548: * ENDCASE
549: * BROWSE NOEDIT
550: * m.id = id
551: * mobj = name
552: * SELECT (msel)
553: * SHOW GETS

```

CLAUSE.ACT 10-3-94 3:01p

```

554: *
555: *
556: *
557: *
558: *
559: *
560: *
561: *
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
570: *
571: * FUNCTION _qsf0kp435 && mbutton VALID
572: * #REGION 1_
573: * DO CASE
574: * CASE mbutton = 1 && delete
575: * m.sure = yesno("Sure you want to delete?", "YES", "NO")
576: * IF m.sure
577: * delete
578: * pack
579: * ENDF
580: * m.id = 0
581: * m.op = " "
582: * m.val = " "
583: * mok = .f.
584: * CASE mbutton = 1 && ok
585: * mok = .t.
586: * CASE mbutton = 2 && cancel
587: * mok = .f.
588: * ENDCASE
589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: * FUNCTION _qsf0kp472 && mtype VALID
606: * #REGION 1_
607: * m.object = LEFT(mtype, 1)
608: * m.object = CHRTRAN(m.object, 'Gg', 'DS')
609: * IF m.object = "S"
610: * SELECT dict
611: * IF datatype = "N" .OR. datatype = "C"
612: * SHOW GET m.val ENABLE
613: * ELSE
614: * SHOW GET m.val DISABLE
615: * ENDF
616: * ELSE
617: * SELECT disease
618: * SHOW GET m.val ENABLE
619: * ENDF

```

Page 5 of 7

```
m.id = id
mobj = name
SELECT (mselect)
SHOW GETS
```

* * * * *

```
ms-DOS
MS-DOS
FROM Platform: MS-DOS
FROM Screen: MS-DOS
Variable: FROM Platform: MS-DOS
Called By: FROM Screen: MS-DOS
Object Type: Variable: FROM Platform: MS-DOS
Snippet Number: Called By: FROM Screen: MS-DOS
```

FLU #R m. m. -I FFL -FLU -EN m. m. SEE SH

```

FUNCTION _qsf0kp5hs      && mtype VALID
#REGION 1
m.m.object = LEFT( mtype, 1 )
m.m.object = CHRTRAN( m.object, 'GQ', 'DS' )
-IF m.object = "SI"
  SELECT dict
  -IF datatype = "N" .OR. datatype = "C"
    SHOW GET m.val ENABLE
  -ELSE
    SHOW GET m.val DISABLE
  -ENDIF
ELSE
  SELECT disease
  SHOW GET m.val ENABLE
ENDIF
m.id = id
mobj = name
SELECT (mselect)
SHOW GETS

```

* * * * *

```

_minval _VALID
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Snippet Number:
MS-DOS
Clause,
_minval
VALID clause
6

```

File #	Doc #	Page #	Page Count	Page 1	Page 2	Page 3	Page 4	Page 5	Page 6	Page 7	Page 8	Page 9	Page 10	Page 11	Page 12	Page 13	Page 14	Page 15	Page 16	Page 17	Page 18	Page 19	Page 20	Page 21	Page 22	Page 23	Page 24	Page 25	Page 26	Page 27	Page 28	Page 29	Page 30	Page 31	Page 32	Page 33	Page 34	Page 35	Page 36	Page 37	Page 38	Page 39	Page 40	Page 41	Page 42	Page 43	Page 44	Page 45	Page 46	Page 47	Page 48	Page 49	Page 50	Page 51	Page 52	Page 53	Page 54	Page 55	Page 56	Page 57	Page 58	Page 59	Page 60	Page 61	Page 62	Page 63	Page 64	Page 65	Page 66	Page 67	Page 68	Page 69	Page 70	Page 71	Page 72	Page 73	Page 74	Page 75	Page 76	Page 77	Page 78	Page 79	Page 80	Page 81	Page 82	Page 83	Page 84	Page 85	Page 86	Page 87	Page 88	Page 89	Page 90	Page 91	Page 92	Page 93	Page 94	Page 95	Page 96	Page 97	Page 98	Page 99	Page 100	Page 101	Page 102	Page 103	Page 104	Page 105	Page 106	Page 107	Page 108	Page 109	Page 110	Page 111	Page 112	Page 113	Page 114	Page 115	Page 116	Page 117	Page 118	Page 119	Page 120	Page 121	Page 122	Page 123	Page 124	Page 125	Page 126	Page 127	Page 128	Page 129	Page 130	Page 131	Page 132	Page 133	Page 134	Page 135	Page 136	Page 137	Page 138	Page 139	Page 140	Page 141	Page 142	Page 143	Page 144	Page 145	Page 146	Page 147	Page 148	Page 149	Page 150	Page 151	Page 152	Page 153	Page 154	Page 155	Page 156	Page 157	Page 158	Page 159	Page 160	Page 161	Page 162	Page 163	Page 164	Page 165	Page 166	Page 167	Page 168	Page 169	Page 170	Page 171	Page 172	Page 173	Page 174	Page 175	Page 176	Page 177	Page 178	Page 179	Page 180	Page 181	Page 182	Page 183	Page 184	Page 185	Page 186	Page 187	Page 188	Page 189	Page 190	Page 191	Page 192	Page 193	Page 194	Page 195	Page 196	Page 197	Page 198	Page 199	Page 200	Page 201	Page 202	Page 203	Page 204	Page 205	Page 206	Page 207	Page 208	Page 209	Page 210	Page 211	Page 212	Page 213	Page 214	Page 215	Page 216	Page 217	Page 218	Page 219	Page 220	Page 221	Page 222	Page 223	Page 224	Page 225	Page 226	Page 227	Page 228	Page 229	Page 230	Page 231	Page 232	Page 233	Page 234	Page 235	Page 236	Page 237	Page 238	Page 239	Page 240	Page 241	Page 242	Page 243	Page 244	Page 245	Page 246	Page 247	Page 248	Page 249	Page 250	Page 251	Page 252	Page 253	Page 254	Page 255	Page 256	Page 257	Page 258	Page 259	Page 260	Page 261	Page 262	Page 263	Page 264	Page 265	Page 266	Page 267	Page 268	Page 269	Page 270	Page 271	Page 272	Page 273	Page 274	Page 275	Page 276	Page 277	Page 278	Page 279	Page 280	Page 281	Page 282	Page 283	Page 284	Page 285	Page 286	Page 287	Page 288	Page 289	Page 290	Page 291	Page 292	Page 293	Page 294	Page 295	Page 296	Page 297	Page 298	Page 299	Page 300	Page 301	Page 302	Page 303	Page 304	Page 305	Page 306	Page 307	Page 308	Page 309	Page 310	Page 311	Page 312	Page 313	Page 314	Page 315	Page 316	Page 317	Page 318	Page 319	Page 320	Page 321	Page 322	Page 323	Page 324	Page 325	Page 326	Page 327	Page 328	Page 329	Page 330	Page 331	Page 332	Page 333	Page 334	Page 335	Page 336	Page 337	Page 338	Page 339	Page 340	Page 341	Page 342	Page 343	Page 344	Page 345	Page 346	Page 347	Page 348	Page 349	Page 350	Page 351	Page 352	Page 353	Page 354	Page 355	Page 356	Page 357	Page 358	Page 359	Page 360	Page 361	Page 362	Page 363	Page 364	Page 365	Page 366	Page 367	Page 368	Page 369	Page 370	Page 371	Page 372	Page 373	Page 374	Page 375	Page 376	Page 377	Page 378	
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```
FUNCTION _qsf0kp5lz      && minval VALID
#REGION 1_
DO CASE
--CASE m.object = "IS"
--CASE dict.datatype = "N" .OR. dict.datatype = "C"
SHOW GET m.val ENABLE
CURSORJ = OBJNUM(m.val)
--CASE dict.datatype = "L" .OR. dict.datatype = "E" .dict.dataty
```

685: 686: 687: 688: 689: 690: 691: 692: 693: 694: 695: 696: 697: 698: 699: 700: 701: 702: 703: 704: 705: 706: 707: 708: 709: 710: 711: 712: 713: 714: 715: 716: 717: 718: 719: 720: 721: 722: 723: 724: 725: 726: 727: 728: 729: 730: 731: 732: 733: 734: 735: 736: 737: 738: 739: 740: 741: 742: 743: 744: 745: 746: 747: 748: 749: 750:

```

SELECT enum
  BROWSE FOR id = dict.id NOEDIT
  m.val = ALLTRIM(enumerate)
  SELECT (mselect)
ENDCASE
CASE m.object = "d"
  SHOW GET m.val ENABLE
  CUROBJ = OBJNUM(m.val)
ENDCASE
SHOW GETS

```

* * * * *

```

- _QSFOKPSq1 minbutton VALID
  Function Origin:
    From Platform: MS-DOS
    From Screen: 23
    Variable: minbutton
    Called By: minbutton
    Snippet Number: 7
    VALID Clause
    7

```

FLU
#R
PRR
ms
DC
CA

```

FUNCTION _qsf0kpsq1      && minbutton VALID
#REGION 1
PRIVATE msel
msel = SELECT()
DO CASE
CASE m.object = "s"
SELECT dict
IF datatype = "N" .OR. datatype = "C"
SHOW GET m.val ENABLE
ELSE
SHOW GET m.val DISABLE
ENDIF
CASE m.object = "q"
SELECT disease
SHOW GET m.val ENABLE
ENDCASE
BROWSE NOEDIT
m.id = id
mobj = name
SELECT (msel)
SHOW GETS

```

msfokp5uc	mbuttons	VALID
Function Origin:		
From Platform:	MS-DOS	Record Number: 24
From Screen:	CLAUSe,	
Variable:	mbuttons	
Called By:	VALID CLAUSe	
Object Type:	push Button	
Snippet Number:	8	

```
FUNCTION _qsfp5uc  && mbuttons VALID
#REGION 1
```

```
FUNCTION _qsfp5uc  && mbuttons VALID
#REGION 1
```

```

751: DO CASE
752: *case mbuttons = 1 && delete
753: * m.sure = yesno("Sure you want to delete?", "YES", "NO")
754: * IF m.sure
755: * * delete
756: * * pack
757: * * ENDIF
758: * * m.id = 0
759: * * m.op = " "
760: * * m.val = " "
761: * * mok = .f.
762: * * CASE mbuttons = 1 && ok
763: * * mok = .t.
764: * * CASE mbuttons = 2 && cancel
765: * * mok = .f.
766: * * END CASE
767:
768:
769:
770:
771:
772:
773:
774:
775:
776: #REGION 1
777: FUNCTION insnewid
778: PARAMETER mdata, mitem
779: PRIVATE m.temp, m.search
780: m.temp = ALLTRIM(mdata)
781: m.search = .f.
782: DO WHILE EMPTY(m.temp)
783: m.t1 = dp(m.temp, "1")
784: m.temp = dp(m.temp, "1", 2, 999)
785: IF VAL(m.t1) = mitem
786: m.search = .t.
787: EXIT
788: ENDIF
789: ENDDO
790: IF !m.search
791: mdata = ALLTRIM(mdata) + IIF(EMPTY(mdata), "", "|") + ALLTRIM(STR(mi
=> tem))
792: ENDIF
793: RETURN m.search
794:
795: FUNCTION setobject
796: PARAMETER m.object, mtype
797: IF "ACTION.DBF" $ DBF()
798: m.object = "0"
799: mtype = "Goal"
800: ELSE
801: m.object = "S"
802: mtype = "Qualifier"
803: ENDIF
804: RETURN
805: * EOF: CLAUSE.ac1

```

CLAUSE/MS-DOS Supporting Procedures and Functions

```

1:  *****
2:  *****
3:  ** Procedure file: C:\CAMD2\KBEDIT\WORK\DP.PRG
4:  ** System: Knowledge Base Editor
5:  ** Author: Hoa L. Ly
6:  ** Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
7:  ** Last modified: 03/15/93 at 9:30:48
8:  **
9:  ** Set by: INSNEWID() (function in CLAUSE.SPR)
10: **
11: ** Documented 15:01:02 FoxDoc versio
12: ** n 3.00a
13: ** *****
14: ** *****
15: ** Date: 08/04/92 10:01:15
16: ** Program Name: DP.PRG
17: ** Author's Name: Hoa Le Ly
18: **
19: ** Copyright (c) 1992 Company Name: NHRC
20: ** Department: Code 22
21: ** San Diego, CA 92138 - 5122
22: ** Description: This program emulate $PIECE of MUMPS function. Which
23: ** => return the
24: ** the portion of string which is bounded by the characters in deli
25: ** miter. If both
26: ** expr and expr2 are present, the value returned includes all char
27: ** actors from
28: ** the expr1-th occurrence of delimiter, up to but not including
29: ** the expr2th
30: ** occurrence of delimiter. If expr2 is not present. it is assumed
31: ** to have the same
32: ** value as expr. If expr1 is not present. Then its value is assu
33: ** me to be 1
34: ** * SYNTAX: DP(string, delimiter[,expr1,expr2])
35: ** * PARAMETER: string: Character expression which character extract fro
36: **
37: ** delimiter: Character to delimiter
38: ** expr: start of number occurrence of delimiter
39: ** expr2: number of occurrence delimiter
40: **
41: ** eg: string = "last, first'age"
42: ** ?dp(string,"",1) ==> last, first
43: ** ?dp(string,"",1,2) ==> last, first'age
44: **
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29: *****

1: * Procedure file: C:\CAMD2\KBEDIT\WORKW\RESTORE.PRG
2: * System: Knowledge Base Editor
3: * Author: Hoa L. Ly
4: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
5: *
6: * Last modified: 06/03/94 at 9:26:30
7: * Set by: KBMENU.MPR
8: * Calls: RESTORE.SPR
9: * Documented 15:01:02
10: * FoxDoc versio
11: *
12: * Restore data files
13: * Programmer: HLL
14: * PROCEDURE restore
15: *
16: *
17: *
18: *
19: *
20: *
21: *
22: *
23: *
24: *
25: *
26: *
27: *
28: *
29: *

```

RULE.AC1 10-3-94 3:01p

```

-ENDIF
*
*
*
*
*
*
RULE/Windows Setup Code - SECTION 2
*
*
*
#REGION 1
PRIVATE msel
msel = SELECT()
SELECT rule
SET FILTER TO area = area.area
SCATTER MEMO MEMVAR
m.adding = .F.
m.oldrec = RECNO()
*
*
*
*
*
*
RULE/Windows Screen Layout
*
*
*
*
*
*
#REGION 1
IF WVISIBLE("w_rule")
    ACTIVATE WINDOW w_rule SAME
ELSE
    ACTIVATE WINDOW w_rule NOSHOW
ENDIF
@ 1,250,1,500 SAY "Rule" ;
FONT "Terminal", 8
@ 1,250,6,625 GET m.rule ;
SIZE 1,000,6,000 ;
DEFAULT 0 ;
FONT "Terminal", 8 ;
DISABLE
@ 1,250,15,500 SAY "Salience" ;
FONT "Terminal", 8
@ 1,250,25,125 GET m.salience ;
SIZE 1,000,5,000 ;
DEFAULT "" ;
FONT "Terminal", 8 ;
VALID m.salience >= 0 .AND. m.salience <= 10000
@ 22,667,24,000 GET mbuttons ;
PICTURE "%a*HT \<Ok \<Cancel\" ;
SIZE 1,917,7,500,0,750 ;
DEFAULT 1 ;
FONT "Terminal", 8 ;
VALID qsfokp97Y()
@ 3,333,1,500 SAY "Explanation" ;
FONT "Terminal", 8
@ 13,250,1,250 SAY "Note" ;
FONT "Terminal", 8

```


RULE.AC1 10-3-94 3:01p

Page 3 of 4

Function Origin:

From Platform:	MS-DOS	Record
From Screen:	RULE,	
Variable:	mbutton	
Called By:	VALID Clause	
Object Type:	Push Button	
Snippet Number:	2	

QSF0KPA7J mbuttons VALID

Function Origin:

From Platform: MS-DOS
 From Screen: RULE, Record Number: 18
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

```

357: *
358: *
359: *
360: *
361: *
362: *
363: *
364: *
365: *
366: *
367: *
368: *
369: FUNCTION _qsfoKpa7j    && mbuttons VALID
370: #REGION 1
371: DO CASE
372:   CASE mbuttons = 1  && delete
373:     m.del = yesno("Sure You want delete?", "YES", "NO")
374:     IF m.del
375:       m.sel = SELECT()
376:       SET TOPIC TO "DELETE"
377:       SELECT premise
378:       DELETE FOR clause = m.premise
379:       PACK
380:       SELECT action
381:       DELETE FOR clause = m.action
382:       PACK
383:       SELECT rule
384:       DELETE
385:       PACK
386:       COUNT TO m.rules
387:       SELECT area
388:       REPLACE rules WITH m.rules
389:       SELECT (m.sel)
390:     ENDIF
391:   SCATTER MEMO MEMVAR
392:   SET TOPIC TO "RULE"
393:   CASE mbuttons = 2  && ok
394:     IF m.adding
395:       APPEND BLANK
396:       GATHER MEMVAR MEMO
397:       m.recno = RECNO()
398:       COUNT TO m.rules
399:       GOTO m.recno
400:       m.sel = SELECT()
401:       SELECT area
402:       REPLACE rules WITH m.rules
403:       SELECT (m.sel)
404:     ELSE
405:       GATHER MEMVAR MEMO
406:     ENDIF
407:   CASE mbuttons = 3  && cancel
408:     GOTO m.oldrec
409:   SCATTER MEMO MEMVAR
410: END CASE
411: *: EOF: RULE.ac1

```

TERM-AC1 10-3-94 3:01p

Page 1 of 5

```
118: IF NOT WVISIBLE("w_term")
119:   ACTIVATE WINDOW w_term
120: ENDIF
121:
122: READ CYCLE MODAL
123:
124: RELEASE WINDOW w_term
125:
126: #REGION 0
127: SET readborder &rborder
128:
129: IF m.talkstat = "ON"
130:   SET TALK ON
131: ENDIF
132: IF m.compstat = "ON"
133:   SET COMPATIBLE ON
134: ENDIF
135:
136:
137:
138:
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=> 140:
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=> 144:
145:
146: #REGION 1
147: RETURN .T.
148:
149:
150:
151:
152:
153: #REGION 0
154: REGIONAL m.currearea, m.talkstat, m.compstat
155:
156: IF SET("TALK") = "ON"
157:   SET TALK OFF
158:   m.talkstat = "ON"
159: ELSE
160:   m.talkstat = "OFF"
161: ENDIF
162: m.compstat = SET("COMPATIBLE")
163: SET COMPATIBLE FOXPLUS
164:
165:
=> 166:
=> 167:
=> 168:
=> 169:
=> 170:
171:
172: IF NOT WEXIST("w_term") ;
173:   OR UPPER(WTITLE("w_term")) == "w_term.pjx" ;
174:
175: OR UPPER(WTITLE("w_term")) == "w_term.scx" ;
176: OR UPPER(WTITLE("w_term")) == "w_term.mnx" ;
177: OR UPPER(WTITLE("w_term")) == "w_term.prg" ;
178: OR UPPER(WTITLE("w_term")) == "w_term.frx" ;
179: OR UPPER(WTITLE("w_term")) == "w_term.qpr" ;
180:
181: DEFINE WINDOW w_term ;
182: FROM INT((SROW()-19)/2), INT((SCOL()-76)/2) ;
183: TO INT((SROW()-19)/2)+18, INT((SCOL()-76)/2)+75 ;
184: TITLE "Term Editor" ;
185: FLOAT ;
186: CLOSE ;
187: SHADOW ;
188: NOMINIMIZE ;
189: COLOR SCHEME 1
190:
191:
=> 192:
=> 193:
=> 194:
=> 195:
=> 196:
197:
198: #REGION 1
199: EXTERNAL ARRAY premr, premo, triple
200: PRIVATE mselect, mok
201: mselect = SELECT()
202: SELECT premo
203: IF EOF()
204:   PRIVATE m.flag = .F.
205:   GOTO BOTTOM
206:   m.clause = IIF(EOF(), 0, clause) + 1
207:   m.flag = addfact()
208:   IF m.flag
209:     PRIVATE m.sel
210:     m.sel = SELECT()
211:     SELECT rule
212:     REPLACE premo WITH m.clause
213:     SELECT (m.sel)
214:   ENDIF
215:
216:
217:
218:
=> 199:
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```

TERM/MS-DOS Setup Code - SECTION 2

TERM/MS-DOS Screen Layout

#REGION 1
IF WVISIBLE("w_term")
 ACTIVATE WINDOW w_term SAME
ELSE
 ACTIVATE WINDOW w_term NOSHOW

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291:                                     *
292:                                     *
293:                                     *
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303:                                     *
304:                                     *
305:                                     *
306:                                     *
307:                                     *
308:                                     *
309:                                     *
310:                                     *
311: FUNCTION #REGION DO edpr
312: #REGION
313: DO edpr
314:
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: *
324: *
325: *
326: *
327: *
328: *
329: *
330: FUNCTION #REGION DO CASE mtk
331: #DO CASE mtk
332: IF n D
333: ENDIF
334: CASE mtk
335: mok
336: mok
337: mok
338: CASE mtk
339: mok
340: CLEAR
341: END CASE
342:
343: *
344: *
345: *
346: *
347: *
348: *
349: *
350: *
351: *
352: *
353: *
354: *
355: *
356: *

```

```

_QSF0KPC3R
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:

mp VALID
Windows
TERM,
mp
VALID Clause
List
1
Record Number: 2

```

```
FUNCTION _qs0kpc3r      && mp VALID
#REGION 1
DO edprem
```

Function Origin:	From Platform:	Windows	Record Number:	3
	From Screen:	TERM,		
	Variable:	mbuttons		
	Called By:	VALID Clause		
	Object Type:	Push Button		
	Snippet Number:	2		
_QSF0KPC6D		mbuttons	VALID	

```

FUNCTION _qsf0kpc6d    && mbuttons VALID
#REGION 1
-DO CASE
-CASE mbuttons = 1    && Edit
  -If mp > 0
    -DO edprem
  -ENDIF
  mok = .t.
-CASE mbuttons = 2    && cancel
  mok = .f.
  CLEAR READ
-ENDCASE

```

MS-DOS	Record Number:	6
TERM,		
mbuttons	VALID Clause	
	Push Button	
		3

```
357: * FUNCTION _qsf0kpcpm    && mbutton VALID
358: #REGION 1
359: DO CASE
360:     CASE mbuttons = 1    && DELETE
361:         SEEK rule.premise
362:         DO WHILE clause = rule.premise
363:             IF EMPTY(premise.op)
364:                 SELECT fact
365:                 DELETE FOR clause = premise.fact
366:                 SELECT premise
367:             ENDDIF
368:             DELETE
369:             SKIP
370:         ENDDO
371:         SELECT fact
372:         * pack
373:         SELECT premise
374:         * pack
375:         mok = .F.
376:         CASE mbuttons = 2    && ok
377:             mok = .T.
378:         CASE mbuttons = 3    && cancel
379:             mok = .F.
380:         ENDCASE
381:
382: * * * * *
383: * * * * *
384: * * * * *
385: * * * * *
386: * * * * *
387: * * * * *
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422: * * * * *
```

Function Origin: mbutton VALID

From Platform: MS-DOS
From Screen: TERM,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 7

Function Origin: morbutton VALID

From Platform: MS-DOS
From Screen: TERM,
Variable: morbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 5

Function Origin: morbutton VALID

From Platform: MS-DOS
From Screen: TERM,
Variable: morbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 5

```
423: * FUNCTION _qsf0kpczg    && mbutton VALID
424: #REGION 1
425: DO CASE
426:     CASE mbuttons = 1    && DELETE
427:         SEEK rule.premise
428:         DO WHILE clause = rule.premise
429:             IF EMPTY(premise.op)
430:                 SELECT fact
431:                 DELETE FOR clause = premise.fact
432:                 SELECT premise
433:             ENDDIF
434:             DELETE
435:             SKIP
436:         ENDDO
437:         SELECT fact
438:         * pack
439:         SELECT premise
440:         * pack
441:         mok = .F.
442:         CASE mbuttons = 2    && ok
443:             mok = .T.
444:         CASE mbuttons = 3    && cancel
445:             mok = .F.
446:         ENDCASE
447:
448: * * * * *
449: * * * * *
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```

Function Origin: mbutton VALID

From Platform: MS-DOS
From Screen: TERM,
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 7

Function Origin: mp VALID

From Platform: MS-DOS
From Screen: TERM,
Variable: mp
Called By: VALID Clause
Object Type: List
Snippet Number: 8

Function Origin: mp VALID

From Platform: MS-DOS
From Screen: TERM,
Variable: mp
Called By: VALID Clause
Object Type: List
Snippet Number: 8

```

489: *
490: #REGION 1
491: PROCEDURE edprem
492: EXTERNAL ARRAY prem, premr, triple
493: SET TOPIC TO "EDIT"
494: SELECT fact
495: K = premr[mp]
496: IF triple[k,2] > 0
497:   SEEK triple[k,2]
498: ELSE
499:   * empty fact list; add insert fact !!!
500:   ENDIF
501:   m.clause = premise.fact
502:   DO clause.spr
503:   SELECT premise
504:   DO setprem
505:   SHOW GETS
506:   mtopic = ALIAS()
507:   SET TOPIC TO &mtopic
508:   RETURN
509:
510:
511: FUNCTION setjoin
512: PARAMETERS joinop
513: IF mp > 0
514:   K = VAL(premo[mp])
515:   IF K > 0
516:     triple[k,1] = joinop
517:     IF triple[k,5] > 0
518:       GOTO triple[k,5]
519:       REPLACE premise.op WITH joinop
520:     ENDIF
521:   ENDIF
522: ENDIF
523: DO setprem
524: SHOW GETS
525: RETURN joinop
526:
527:
528: FUNCTION lastfact
529: SELECT premise
530: IF EOF()
531:   m.fact = 0
532: ELSE
533:   m.fact = fact
534: ENDIF
535: SELECT fact
536: RETURN m.fact
537:
538: FUNCTION addfact
539: PRIVATE m.sel, m.flag
540: m.sel = SELECT()
541: m.flag = .F.
542: SELECT fact
543: GOTO BOTTOM
544: m.fact = IIF(EOF(), 0, clause) + 1
545: DO clause.spr WITH m.fact
546: SEEK m.fact
547: IF FOUND()
548:   SELECT premise
549:   APPEND BLANK
550:   REPLACE clause WITH m.clause
551:   REPLACE fact WITH m.fact
552:   m.flag = .T.
553: ENDIF
554: SELECT (m.sel)

```

```

555: DO setprem
556: RETURN m.flag
557: *: EOF: TERM.ac1

```

```

1: *****
2: *
3: * Procedure file: C:\CAMD2\KBEDIT\WORK\K8BDELETE.PRG
4: * System: Knowledge Base Editor
5: * Author: Hoa L. Ly
6: * Copyright (c) June 1, 1994, Naval Health Research Center, Code 2
7: * Last modified: 07/27/94 at 10:47:58
8: *
9: * Set by: _QSF0K0KEU() (function in KBDEL.SPR)
10: * : _QSF0K0KPT() (function in KBDEL.SPR)
11: *
12: * Uses: FACT.DBF
13: * : PREMISE.DBF
14: * : ACTION.DBF
15: * : RULE.DBF
16: *
17: * Indexes: FACT.IDX
18: * : PREMISE.IDX
19: * : ACTION.IDX
20: * : RULEAREA.IDX
21: * : SALIENCE.IDX
22: * : RULE.IDX
23: *
24: * Documented 15:01:04 FoxDoc versio
25: * *****
26: * kbdelete.prg
27: *
28: * PARAMETERS m.name && name of knowledge base
29: *
30: * * Removes rules and their associated premise, action clauses
31: * * from the knowledge base.
32: *
33: * * Lookup the name in the knowledge base file
34: * * SELECT area &&
35: * * LOCATE FOR LOWER(name) = LOWER(m.name) && lookup by name (case inse
36: * * nsitive)
37: * * IF !FOUND()
38: * * RETURN
39: * * ENDIF
40: *
41: * * open database
42: * * SELECT 0
43: * * USE fact INDEX fact
44: * * SELECT 0
45: * * USE premise INDEX premise
46: * * SET RELATION TO fact INTO fact
47: * * SELECT 0
48: * * USE action INDEX action
49: * * SELECT 0
50: * * USE rule INDEX rulearea,salience,rule
51: * * SET RELATION TO premise INTO premise, action INTO action
52: * * SELECT area
53: * * SET RELATION TO area INTO rule
54: *
55: * * delete rules and clauses in knowledge base
56: * * SELECT rule &&
57: * * SEEK area.area
58: * * DO WHILE area = area.area .AND. !EOF()
59: * * SELECT premise
60: * * SEEK rule.premise
61: * * DO WHILE clause = rule.premise

```

```

62: *
63: * IF EMPTY(premise.op)
64: * * SELECT fact
65: * * DELETE FOR clause = premise.fact && delete all premise cla
66: *
67: * ENDIF
68: * * SELECT premise
69: * * DELETE
70: * * SKIP
71: *
72: * ENDDO
73: * * SELECT action
74: * * DELETE FOR clause = rule.action && delete all action clauses
75: * * DELETE FOR clause = rule.else && delete all else clauses
76: * * SELECT rule
77: * * DELETE && delete the rule
78: * * SKIP
79: * * ENDDO
80: *
81: * * delete goals and qualifiers in knowledge base
82: * * SELECT goals
83: * * DELETE FOR area = area.area
84: * * PACK
85: * * SELECT DISPLAY
86: * * DELETE FOR area = area.area
87: * * PACK
88: * * SELECT quals
89: * * DELETE FOR area = area.area
90: * * PACK
91: *
92: * * update premise database
93: * * SELECT premise
94: * * PACK
95: *
96: * * update fact database
97: * * SELECT fact
98: * * PACK
99: *
100: * * update action database
101: * * SELECT action
102: * * PACK
103: *
104: * * update rulebase
105: * * SELECT rule
106: * * PACK
107: *
108: * * update area database
109: * * SELECT area
110: * * REPLACE rules with 0
111: * * PRIVATE m.recno
112: * * m.recno = RECCNO()
113: * * DELETE
114: * * PACK
115: * * IF m.recno > RECCOUNT()
116: * * GOTO BOTTOM
117: * * ELSE
118: * * GOTO m.recno
119: * * ENDIF
120: *
121: * * close unused database
122: * * SELECT fact
123: * * USE
124: * * SELECT premise
125: * * USE
126: * * SELECT action
127: * * USE
128: * * SELECT rule
129: * * USE
130: *
131: * && indicate no rules

```


127: * finish up
128: * RETURN
129: *
130: *
131: *: EOF: KBDELETE.act


```

179: IF SET("TALK") = "ON"
180: SET TALK OFF
181: m.talkstat = "ON"
182: ELSE
183: m.talkstat = "OFF"
184: ENDIF
185: m.compstat = SET("COMPATIBLE")
186: SET COMPATIBLE FOXPLUS
187:
188: *
189:
190: |
191: |
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```

```

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS

*

*

*

*

*

*

IF NOT WEXIST("object") ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.PJX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.SCX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.MNX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.PRG" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.FRX" ;
OR UPPER(WTITLE("OBJECT")) == "OBJECT.QPR" ;
DEFINE WINDOW OBJECT ;
FROM INT((SROW()-11)/2),INT((SCOL()-54)/2) ;
TO INT((SROW()-11)/2)+10,INT((SCOL()-54)/2)+53 ;
TITLE "Add New Object" ;
NOFLOAT ;
NOCLOSE ;
SHADOW ;
NOMINIMIZE ;
COLOR SCHEME 1
ENDIF

*

*

*

*

*

*

#REGION 1
IF WVISIBLE("object")
ACTIVATE WINDOW OBJECT SAME
ELSE
ACTIVATE WINDOW OBJECT NOSHOW
ENDIF
@ 6,1 SAY "ID#:" ;
SIZE 1,5,0
@ 2,8 GET m.object ;
PICTURE "a*rhn Subject ;Disease" ;
SIZE 1,16,0 ;
DEFAULT 1 ;
VALID asfokogoj()
234:

```

```

235: @ 4,10 GET m.name ;
236: SIZE 1,38 ;
237: DEFAULT " " ;
238: VALID _qsf0kpgsr()
239: @ 6,8 GET m.id ;
240: SIZE 1,5 ;
241: DEFAULT 0 ;
242: DISABLE
243: @ 8,19 GET m.button ;
244: PICTURE "a*HT \<Ok;\<Cancel" ;
245: SIZE 1,8,1 ;
246: DEFAULT 1 ;
247: VALID _qsf0kpgvz()
248: @ 2,1 SAY "Type:" ;
249: SIZE 1,5,0
250: @ 4,1 GET m.obj ;
251: PICTURE "a*HN Object" ;
252: SIZE 1,8,1 ;
253: DEFAULT 1 ;
254: VALID _qsf0kph17()
255:
256: [IF NOT WVISIBLE("object")]
257: ACTIVATE WINDOW OBJECT
258: [ENDIF]
259:
260: READ CYCLE MODAL
261:
262: RELEASE WINDOW OBJECT
263:
264: #REGION 0
265: [IF m.talkstat = "ON"
266: SET TALK ON
267: [ENDIF]
268: [IF m.compstat = "ON"
269: SET COMPATIBLE ON
270: [ENDIF]
271:
272: [ENDCASE
273:
274:
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```

__QSF0KPF1	m.object VALID
Function Origin:	
From Platform:	Windows
From Screen:	OBJECT,
Variable:	m.object
Called By:	VALID Clause
Object Type:	Radio Button
Snippet Number:	1

```

291: FUNCTION _qsf0kpf1    && m.object VALID
292: #REGION 1
293: [IF m.object = 1
294: SELECT dict
295: SET ORDER TO 1
296: GOTO BOTTOM
297: m.id = id + 1
298: [ELSE
299: [IF m.object = 2
300: SELECT disease

```

```

301: SET ORDER TO 1
302: GOTO BOTTOM
303: m.id = id + 1
304: [ENDIF]
305: [ENDIF]
306: SHOW GETS
307:
308: *
309: *
310: *
311: *
312: *
313: *
314: *
315: *
316: *
317: *
318: *
319: *
320: *
321: *
322: *
323: FUNCTION _qsf0kpfv8    && m.name VALID
324: #REGION 1
325: =getobj(m.name)
326:
327: *
328: *
329: *
330: *
331: *
332: *
333: *
334: *
335: *
336: *
337: *
338: *
339: *
340: *
341: *
342: FUNCTION _qsf0kpfyy    && m.button VALID
343: #REGION 1
344: [IF m.button = 1
345: * SEEK m.id
346: * IF I found()
347: APPEND BLANK
348: REPLACE id WITH m.id
349: REPLACE name WITH m.name
350: * IF m.get
351: * = datainput()
352: * [ENDIF]
353: * [DO CASE
354: * CASE m.status = "q"
355: * SELECT quals
356: * CASE m.status = "g"
357: * SELECT goals
358: * [ENDCASE]
359: APPEND BLANK
360: REPLACE id WITH m.id
361: REPLACE object WITH IIF(m.object=1,"S","D")
362: REPLACE area WITH area.area
363: SELECT (m.sel)
364: [ENDIF]
365:
366:

```

__QSF0KPFV8	m.name VALID
Function Origin:	
From Platform:	Windows
From Screen:	OBJECT,
Variable:	m.name
Called By:	VALID Clause
Object Type:	Field
Snippet Number:	2

__QSF0KPFYY	m.button VALID
Function Origin:	
From Platform:	Windows
From Screen:	OBJECT,
Variable:	m.button
Called By:	VALID Clause
Object Type:	Push Button
Snippet Number:	3

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_QSF0KPG47
Function Origin:
From Platform: Windows
From Screen: OBJECT,
Variable: m.obj
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4

Record Number: 8

&& m.obj VALID

```

FUNCTION _qsfoKpg47
#REGION 1_
DO CASE
CASE m.object = 1
  SELECT dict
CASE m.object = 2
  SELECT disease
ENDCASE
=creatarray()
DO selitem
SHOW GETS

```

m.object VALID

_QSF0KPG0J
Function Origin:
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.object
Called By: VALID Clause
Object Type: Radio Button
Snippet Number: 5

Record Number: 13

&& m.object VALID

```

FUNCTION _qsfoKpg0j
#REGION 1_
IF m.object = 1
  SELECT dict
  SET ORDER TO 1
  GOTO BOTTOM
  m.id = id + 1
ELSE
  IF m.object = 2
    SELECT disease
    SET ORDER TO 1
    GOTO BOTTOM
    m.id = id + 1
  ENDIF
ENDIF
SHOW GETS

```

m.name VALID

_QSF0KPGSR
Function Origin:

433:
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From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.name
Called By: VALID Clause
Object Type: Field
Snippet Number: 6

Record Number: 14

```

FUNCTION _qsfoKpgsr
#REGION 1_
=getobj(m.name)

```

m.button VALID

_QSF0KPGVZ
Function Origin:
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.button
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 7

Record Number: 16

&& m.button VALID

```

FUNCTION _qsfoKpgvz
#REGION 1_
IF m.button = 1
  * SEEK m.id
  * IF found()
  APPEND BLANK
  REPLACE id WITH m.id
  REPLACE name WITH m.name
  IF !m.get
    =datainput()
  ENDIF
ENDIF
DO CASE
CASE m.status = "q"
  SELECT quals
CASE m.status = "g"
  SELECT goals
ENDCASE
APPEND BLANK
REPLACE id WITH m.id
REPLACE OBJECT WITH IIF(m.object=1,"S","D")
REPLACE area WITH area.area
SELECT (m.sel)
ENDIF

```

m.obj VALID

_QSF0KPH17
Function Origin:
From Platform: MS-DOS
From Screen: OBJECT,
Variable: m.obj
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 8

Record Number: 18

```

499: *
500: * FUNCTION _qsf0kph17    && m.obj VALID
501: #REGION 1
502: DO CASE
503: CASE m.object = 1
504: SELECT dict
505: CASE m.object = 2
506: SELECT disease
507: ENDCASE
508: =creatarray()
509: DO selitem
510: SHOW GETS
511:
512:
513:
514:
515:
516:
517:
518:
519:
520:
521:
522: #REGION 1
523: FUNCTION creatarray
524: IF RECCOUNT() > 0
525: DIMENSION marray[reccount()]
526: ELSE
527: DIMENSION marray[1]
528: ENDF
529: marray = ""
530: i = 0
531: IF m.status = "Q"
532: m.dbf = 'QUALS'
533: ELSE
534: m.dbf = 'GOALS'
535: ENDF
536: GOTO TOP
537: SCAN
538: IF EMPTY(SEEK(id,m.dbf))
539: i = i + 1
540: marray[i] = RIGHT(STR(id),5) + " " + TRIM(name)
541: ENDF
542: ENDSCAN
543: IF i > 0
544: DECLARE marray[i] && resize marray
545: ELSE
546: DECLARE marray[1]
547: marray = ""
548: ENDF
549: RETURN
550:
551: FUNCTION datainput
552: m.get = .T.
553: DO CASE
554: CASE "DISEASE.DBF" $ DBF()
555: DO disease.spr
556: CASE "DICT.DBF" $ DBF()
557: DO dict.spr WITH m.id
558: ENDCASE
559: m.id = id
560: m.name = name
561: RETURN
562:
563:
564: *

```

```

565: *
566: *
567: *
568: *
569: FUNCTION getobj
570: PARAMETER m.name
571: PRIVATE m.file, mcom, msel, m.temp
572: mcom = SET("EXACT")
573: SET EXACT OFF
574: m.file = DBF()
575: msel = SELECT()
576: m.temp = m.name + ".tmp"
577:
578: SELECT id, name;
579: FROM (m.file);
580: INTO CURSOR t00000000;
581: WHERE UPPER(name) LIKE (UPPER(m.temp))
582: SELECT t00000000
583: =creatarray()
584: USE
585: SELECT (msel)
586: DO selitem
587: *delete file t00000000.dbf
588: SET EXACT &mcom
589: RETURN
590:
591: FUNCTION selitem
592: m.item = ""
593: IF EMPTY(marray[1])
594: DO obl.st.spr WITH marray, m.item
595: IF m.item $ "-"
596: m.name = ""
597: CUROBJ = OBJNUM(m.name)
598: SHOW GETS
599: RETURN
600: ENDF
601: IF EMPTY(m.item)
602: m.get = .T.
603: DO CASE
604: CASE "DISEASE.DBF" $ DBF()
605: DO disease.spr
606: CASE "DICT.DBF" $ DBF()
607: DO dict.spr WITH m.id
608: ENDCASE
609: m.id = id
610: m.name = name
611: ELSE
612: m.id = VAL(m.item)
613: m.name = TRIM(SUBSTR(m.item,7,LEN(m.item)))
614: ENDF
615:
616: * EOF: OBJECT.ac1
617:

```

OBJECT/MS-DOS Supporting Procedures and Functions

[illegible]

```

179: #REGION 1
180: IF WVISIBLE("w_qenum")
181:     ACTIVATE WINDOW w_qenum SAME
182: ELSE
183:     ACTIVATE WINDOW w_qenum NOSHOW
184: ENDIF
185: @ 3,32 GET mbuttons ;
186: PICTURE "a*HT OK;Cancel" ;
187: SIZE 1,8,1 ;
188: DEFAULT 1 ;
189: VALID _qsf0kpjyy()
190: @ 2,0 SAY "Ord";
191: SIZE 1,3,0
192: @ 0,0 SAY "Mutex" ;
193: SIZE 1,5,0
194: @ 2,6 GET enum.ord ;
195: SIZE 1,2 ;
196: DEFAULT 1 ;
197: DISABLE
198: @ 0,6 GET enum.mutex ;
199: SIZE 1,1 ;
200: DEFAULT " " ;
201: VALID _qsf0kpk3s()
202: @ 1,6 GET enum.enumerate ;
203: SIZE 1,6,3 ;
204: DEFAULT " " ;
205: PICTURE "a;" ;
206: @ 1,0 SAY "Enum" ;
207: SIZE 1,4,0
208: @ 3,22 GET mbutton ;
209: PICTURE "a*VN Add" ;
210: SIZE 1,8,1 ;
211: DEFAULT 1 ;
212: VALID _qsf0kpk8e()
213:
214:
215:
216:
217: IF NOT WVISIBLE("w_qenum")
218:     ACTIVATE WINDOW w_qenum
219: ENDIF
220:
221: READ CYCLE MODAL
222:
223: RELEASE WINDOW w_qenum
224:
225: #REGION 0
226: IF m.talkstat = "ON"
227:     SET TALK ON
228: ENDIF
229: IF m.compstat = "ON"
230:     SET COMPATIBLE ON
231: ENDIF
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```

.._QSF0KPJAM	mbuttons VALID
Function Origin:	
From Platform:	Windows
From Screen:	ENUM, Record
Variable:	mbuttons
Called By:	VALID Clause
Object Type:	Push Button

SHOW GETS

311: *
 312: *
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 376: *

Function Origin: mbuttons VALID
 From Platform: MS-DOS
 From Screen: ENUM, Record Number: 12
 Variable: mbuttons
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 4

FUNCTION _qs0kpkjy && mbuttons VALID

#REGION 1
 DO CASE
 CASE mbuttons = 1 && ok
 mok = .T.
 CASE mbuttons = 2 && cancel
 mok = .F.
 ENDCASE

Function Origin: enum.mutex VALID
 From Platform: MS-DOS
 From Screen: ENUM, Record Number: 16
 Variable: enum.mutex
 Called By: VALID Clause
 Object Type: Field
 Snippet Number: 5

FUNCTION _qs0kpk3s && enum.mutex VALID

#REGION 1
 DO CASE
 CASE dict.datatype \$ "EL"
 RETURN mutex = ". "
 CASE dict.datatype \$ "M"
 RETURN mutex \$ "-+ "
 ENDCASE
 RETURN .F.

Function Origin: mbutton VALID
 From Platform: MS-DOS
 From Screen: ENUM, Record Number: 19
 Variable: mbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 6

Snippet Number: 1

245: *
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 309: *
 310: *

FUNCTION _qs0kpkjam && mbuttons VALID

DO CASE
 CASE mbuttons = 1 && ok
 mok = .T.
 CASE mbuttons = 2 && cancel
 mok = .F.
 ENDCASE

Function Origin: enum.mutex VALID
 From Platform: Windows
 From Screen: ENUM, Record Number: 6
 Variable: enum.mutex
 Called By: VALID Clause
 Object Type: Field
 Snippet Number: 2

FUNCTION _qs0kpkjf7 && enum.mutex VALID

#REGION 1
 DO CASE
 CASE dict.datatype \$ "EL"
 RETURN mutex = ". "
 CASE dict.datatype \$ "M"
 RETURN mutex \$ "-+ "
 ENDCASE
 RETURN .F.

Function Origin: mbutton VALID
 From Platform: Windows
 From Screen: ENUM, Record Number: 9
 Variable: mbutton
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 3

FUNCTION _qs0kpkjjk && mbutton VALID

#REGION 1
 m.ord = 0
 DO WHILE id = dict.id
 m.ord = ord
 SKIP
 ENDDO
 m.ord = m.ord + 1
 APPEND BLANK
 m.id = dict.id
 m.mutex = ". "
 GATHER MEMVAR
 CURORBJ = OBJNUM(enum.mutex)

```
377: *
378: FUNCTION qsf0kpk8e    && mbutton VALID
379: #REGION 1-
380: m.ord = 0
381: DO WHILE id = dict.id
382:     m.ord = ord
383:     SKIP
384: ENDDO
385: m.ord = m.ord + 1
386: APPEND BLANK
387: m.id = dict.id
388: m.mutex = " "
389: GATHER MEMVAR
390: CUROBJ = OBJNUM(enum.mutex)
391: SHOW GETS
392: *: EOF: ENUM.ac1
```

```

1: *
2: *
3: * RESTORE.SPR 09:39:47
4: *
5: *
6: *
7: *
8: *
9: *
10: * Author's Name
11: * Copyright (c) 1994 Company Name
12: * Address
13: * City, Zip
14: * Description:
15: * This program was automatically generated by GENSCRN.
16: *
17: *
18: *
19: * PARAMETERS MESSAGE, wildcard, filename
20: *
21: * DO CASE
22: * CASE _WINDOWS
23: *
24: *
25: * RESTORE/Windows Setup Code - SECTION 1
26: *
27: *
28: *
29: *
30: * #REGION 1
31: * PRIVATE mfname, mpath, olddrive, predrive, oldpath, maction, mdri
32: * e, mfiles
33: * DO CASE
34: * CASE PARAMETERS() = 0
35: * m.message = ""
36: * m.wildcard = "*.zip"
37: * mfname = ""
38: * CASE PARAMETERS() = 1 OR EMPTY(m.wildcard)
39: * m.wildcard = "*.zip"
40: * mfname = ""
41: * CASE PARAMETERS() = 2 OR EMPTY(m.filename)
42: * mfname = ""
43: * OTHERWISE
44: * mfname = filename
45: * END CASE
46: *
47: * #REGION 0
48: * REGIONAL m.curarea, m.talkstat, m.compstat
49: *
50: * IF SET("TALK") = "ON"
51: * SET TALK OFF
52: * m.talkstat = "ON"
53: * ELSE
54: * m.talkstat = "OFF"
55: * ENDIF
56: * m.compstat = SET("COMPATIBLE")
57: * SET COMPATIBLE FOXPLUS
58: *
59: * m.rborder = SET("READBORDER")
60: * SET readborder ON

```



```

233: #REGION 0
234: REGIONAL m.currarea, m.talkstat, m.compstat
235:
236: IF SET("TALK") = "ON"
237: SET TALK OFF
238: m.talkstat = "ON"
239: ELSE
240: m.talkstat = "Off"
241: ENDIF
242: m.compstat = SET("COMPATIBLE")
243: SET COMPATIBLE FOXPLUS
244:
245: *
246: =>
247:
248:
249:
250:
251:
252:
253:
254:
255:
256:
257:
258:
259:
260:
261:
262:
263:
264:
265:
266:
267:
268:
269:
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278:
279:
280:
281:
282:
283:
284:
285:
286:
287:
288:

```

```

OR UPPER(WTITLE("W_restore")) = "W_restore.PJX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.SCX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.MNX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.PRG" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.FRX" ;
OR UPPER(WTITLE("W_restore")) = "W_restore.QPR" ;
DEFINE WINDOW W_restore ;
FROM INT((SROW()-18)/2), INT((SCOL()-61)/2) ;
TO INT((SROW()-18)/2)+17, INT((SCOL()-61)/2)+60 ;
NOFLOAT ;
NOCLOSE ;
SHADOW ;
NOMINIMIZE ;
DOUBLE ;
COLOR SCHEME 5
ENDIF

```

```

RESTORE/MS-DOS Setup Code - SECTION 2

```

```

#REGION 1
m.olddrive = SET("DEFAULT")
m.preddrive = m.olddrive
m.olddpath = CURDIR()
maction = 1
DECLARE drivearray[1,1]
mdrive = 1
DO newdrivepop

```

```

289: DECLARE patharray[1,1]
290: mpath = 1
291: DO newpathpop
292:
293: DECLARE filearray[1,1]
294: mfiles = 1
295: DO newfilepop
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
307:
308:
309:
310:
311:
312:
313:
314:
315:
316:
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340:
341:
342:
343:
344:
345:
346:
347:
348:
349:

```

```

RESTORE/MS-DOS Screen Layout

```

```

#REGION 1
IF WVISIBLE("W_restore")
ACTIVATE WINDOW W_restore SAME
ELSE
ACTIVATE WINDOW W_restore NOSHOW
ENDIF
a 2,40 GET mdrive ;
PICTURE "a" ;
FROM drivearray ;
SIZE 3,18 ;
DEFAULT 1 ;
WHEN _qsfofpmv5() ;
VALID _qsfofpmv5a() ;
COLOR SCHEME 5, 6
a 6,28 SAY "Directory:" ;
SIZE 1,10, 0
a 0,0 SAY MESSAGE ;
SIZE 1,40
a 5,40 GET mpath ;
PICTURE "a" ;
FROM patharray ;
SIZE 3,18 ;
DEFAULT 1 ;
VALID _qsfofpmv5t() ;
COLOR SCHEME 5, 6
a 9,45 GET maction ;
PICTURE "a" \!<Restore;\<Cancel" ;
SIZE 1,9,1 ;
DEFAULT 1 ;
VALID _qsfofpmv5t() ;
a 2,1 GET mfile ;
PICTURE "a" ;
FROM filearray ;
SIZE 11,26 ;
DEFAULT 1 ;
VALID _qsfofpmv5t() ;
COLOR SCHEME 6
a 14,19 GET mfname ;
SIZE 1,39 ;
DEFAULT " " ;
VALID _qsfofpmv5t() ;
a 14,0 SAY "Restore file name: " ;
SIZE 1,19, 0
a 3,28 SAY "From drive: " ;
SIZE 1,12, 0

```



```

476: *
477: *      Called By:      VALID Clause
478: *      Object Type:    Push Button
479: *      Snippet Number: 4
480: *
481: *
482: *      FUNCTION _qsf0kpn0j    && maction VALID
483: *      #REGION 1_
484: *      DO CASE
485: *      CASE maction = 1
486: *      IF FILE(mfname)
487: *      DO pkunzip
488: *      ENDIF
489: *      OTHERWISE
490: *      ENDIF
491: *      ENDCASE
492: *
493: *
494: *
495: *
496: *
497: *
498: *
499: *
500: *
501: *
502: *
503: *
504: *
505: *
506: *
507: *      FUNCTION _qsf0kpn3t    && mfile VALID
508: *      #REGION 1_
509: *      mnewfile = filearray[mfile,1]
510: *      IF " " $ mnewfile
511: *      mnewpath = SUBSTR(mnewfile,2,LEN(mnewfile)-2)
512: *      SET DEFA TO (mnewpath)
513: *      DO newpathpop
514: *      DO newfilepop
515: *      SHOW GETS
516: *      ELSE
517: *      mfname = mnewfile
518: *      SHOW GETS
519: *      ENDIF
520: *
521: *
522: *
523: *
524: *
525: *
526: *
527: *
528: *
529: *
530: *
531: *
532: *
533: *
534: *
535: *
536: *      FUNCTION _qsf0kpn7e    && mfname VALID
537: *      #REGION 1_
538: *      IF EMPTY(mfname)
539: *      IF IF FILE(mfname)
540: *      mfname = ""
541: *      ENDIF

```

```

542: *
543: *
544: *
545: *
546: *
547: *
548: *
549: *
550: *
551: *
552: *
553: *
554: *
555: *
556: *
557: *
558: *      FUNCTION _qsf0kpn5    && mdrive WHEN
559: *      #REGION 1_
560: *      m.prevdribe = mdrive
561: *
562: *
563: *
564: *
565: *
566: *
567: *
568: *
569: *
570: *
571: *
572: *
573: *
574: *
575: *
576: *
577: *
578: *
579: *
580: *
581: *
582: *
583: *
584: *
585: *
586: *
587: *
588: *
589: *
590: *
591: *
592: *
593: *
594: *
595: *
596: *
597: *
598: *
599: *
600: *
601: *
602: *
603: *
604: *
605: *
606: *

```

_QSF0KPNV5

Function Origin:

From Platform: MS-DOS
From Screen: RESTORE,
Variable: mdrive
Called By: WHEN Clause
Object Type: PopUp
Snippet Number: 7

Record Number: 14

_QSF0KPO0A

Function Origin:

From Platform: MS-DOS
From Screen: RESTORE,
Variable: mdrive
Called By: VALID Clause
Object Type: PopUp
Snippet Number: 8

Record Number: 14

*Switch to the selected drive

FUNCTION _qsf0kpo0a && mdrive VALID

#REGION 1_

PRIVATE newdrive,mready

*Convert the popup bar number into the matching drive name

m.newdrive = drivearray[mdrive]

IF UPPER(m.newdrive) \$ "A:B:"

mready = yesno("Please insert disk into drive " + m.newdrive, "rea
=> dy", "cancel")

ELSE

mready = .T.

ENDIF

IF mready

*Go there and reset all the other popups to match

SET DEFAULT TO (m.newdrive)

DO newpathpop

DO newfilepop

ELSE

mdrive = m.prevdribe

m.newdrive = drivearray[mdrive]

ENDIF

SHOW GETS

*

*

*

*

*

_QSF0KPO5T

Function Origin:

673: 674: 675: 676: 677: 678: 679: 680: 681: 682: 683: 684: 685: 686: 687: 688: 689: 690: 691: 692: 693: 694: 695: 696: 697: 698: 699: 700: 701: 702: 703: 704: 705: 706: 707: 708: 709: 710: 711: 712: 713: 714: 715: 716: 717: 718: 719: 720: 721: 722: 723: 724: 725: 726: 727: 728: 729: 730: 731: 732: 733: 734: 735: 736: 737: 738:

7 8 19

.....


```

739: * Create the array of legal drive names
740: DECLARE drivearray[ 1 ] = ""
741: drivearray[ 1 ] = ""
742:
743: * Loop from A to Z
744: m.driveName = "A"
745: FOR i = 1 TO 26
746:
747:   * Try to switch to the drive
748:   SET DEFAULT TO (m.driveName)
749:
750:   * If it worked
751:   IF NOT m.error
752:
753:     * Add the name to the last element in the array
754:     drivearray[ ALLEN( DriveArray ) ] = m.driveName + ":"
755:
756:     * Add another element at the end of the array
757:     DECLARE drivearray[ ALLEN( DriveArray ) + 1 ]
758:
759:   ENDIF
760:
761:   * Change to the next letter in the alphabet
762:   m.driveName = CHR( ASC( m.driveName ) + 1 )
763:
764:   * Reset the error trap
765:   m.error = .F.
766: NEXT
767:
768: * If the first element is empty, no drives were found
769: IF EMPTY( drivearray[ 1 ] )
770:   SHOW GET m.drive disabled
771: ELSE
772:   * Drives were found so cut off the last empty element
773:   * added to the array in the loop
774:   DECLARE drivearray[ ALLEN( DriveArray ) - 1 ]
775: ENDIF
776:
777: * Reset the error trap and return to home
778: ON ERROR &olderror
779: SET DEFAULT TO (m.olddefault)
780:
781: * Initialize the popup variable to the element in the
782: * drive array which contains the current drive
783: mdrive = ASCAN( drivearray, m.olddefault )
784: RETURN
785:
786: *****
787: CASE WINDOWS
788: *****
789: * Create a popup with each of the legal drive names
790: * The popup will be based on an array of the drive names
791: PRIVATE olddefault, olderror, driveName, ERROR
792:
793: * We will change drives, so remember where we started
794: m.olddefault = SET( "DEFAULT" )
795:
796: * To test for legal drives this program SET DEFAULT TO each drive
797: * If no error occurs the drive name will be added to an array
798:
799: * Create the error trap
800: m.olderror = ON( "ERROR" )
801: m.error = .F.
802: ON ERROR m.error = .T.
803:
804: * Create the array of legal drive names

```

```

805: DECLARE drivearray[ 3 ]
806: drivearray[ 1 ] = "A"
807: drivearray[ 2 ] = "B"
808: drivearray[ 3 ] = ""
809:
810: * Loop from A to Z
811: m.driveName = "C"
812: FOR i = 3 TO 26
813:
814:   * Try to switch to the drive
815:   SET DEFAULT TO (m.driveName)
816:
817:   * If it worked
818:   IF NOT m.error
819:
820:     * Add the name to the last element in the array
821:     drivearray[ ALLEN( DriveArray ) ] = m.driveName + ":"
822:
823:     * Add another element at the end of the array
824:     DECLARE drivearray[ ALLEN( DriveArray ) + 1 ]
825:
826:   ENDIF
827:
828:   * Change to the next letter in the alphabet
829:   m.driveName = CHR( ASC( m.driveName ) + 1 )
830:
831:   * Reset the error trap
832:   m.error = .F.
833: NEXT
834:
835: * If the first element is empty, no drives were found
836: IF EMPTY( drivearray[ 1 ] )
837:   SHOW GET m.drive disabled
838: ELSE
839:   * Drives were found so cut off the last empty element
840:   * added to the array in the loop
841:   DECLARE drivearray[ ALLEN( DriveArray ) - 1 ]
842: ENDIF
843:
844: * Reset the error trap and return to home
845: ON ERROR &olderror
846: SET DEFAULT TO (m.olddefault)
847:
848: * Initialize the popup variable to the element in the
849: * drive array which contains the current drive
850: mdrive = ASCAN( drivearray, m.olddefault )
851: RETURN
852:
853: *****
854: END CASE
855:
856: * * * * *
857: * * * * *
858: * * * * *
859: * * * * *
860: * * * * *
861:
862: PROCEDURE newpathpop
863: DO CASE
864: CASE DOS
865: *****
866: * Create a popup with one bar for each subdirectory
867: * in the current path
868: PRIVATE dirstring, dircount
869:
870:

```

RESTORE Procedure NEWPATHPOP

```

871: * Base the popup on an array with one element for
872: * each subdirectory in the current path
873:
874: * Start the array with the current drive
875: DECLARE patharray[ 1 ]
876: patharray[ 1 ] = SET( "DEFAULT" )
877:
878: * Get the current path string
879: m.dirstring = CURDIR()
880:
881: * If we are not in the root directory
882: IF LEN( m.dirstring ) > 1
883:
884: * Start parsing the path string for each directory name
885: m.dircount = 1
886:
887: * Continue as long as there is a pair of slashes
888: * Surrounding the next part of the string
889: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
890: AT( "\", m.dirstring, m.dircount + 1 ) <> 0 ;
891:
892: * Add another element at the end of the array
893: DECLARE patharray[ m.dircount + 1 ]
894:
895: * Cut out the next set of characters between the slashes
896: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
897:
898: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
899: - m.firstchar
900:
901: * And add them to the next array element
902: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
903: m.firstchar, m.pathlength )
904:
905: * Look for the next directory name in the path string
906: m.dircount = m.dircount + 1
907:
908: ENDDO
909:
910: * Point the popup variable at the last element in the array
911: mpath = ALEN( patharray )
912: RETURN
913:
914: *****
915: CASE WINDOWS
916: *****
917:
918: * Create a popup with one bar for each subdirectory
919: * in the current path
920: PRIVATE dirstring, dircount
921:
922: * Base the popup on an array with one element for
923: * each subdirectory in the current path
924:
925: * Start the array with the current drive
926: DECLARE patharray[ 1 ]
927: patharray[ 1 ] = SET( "DEFAULT" )
928:
929: * Get the current path string
930: m.dirstring = CURDIR()
931:
932: * If we are not in the root directory
933: IF LEN( m.dirstring ) > 1
934:
935: * Start parsing the path string for each directory name
936:

```

```

937:
938: * Continue as long as there is a pair of slashes
939: * Surrounding the next part of the string
940: DO WHILE AT( "\", m.dirstring, m.dircount ) <> 0 AND ;
941: AT( "\", m.dirstring, m.dircount + 1 ) <> 0 ;
942:
943: * Add another element at the end of the array
944: DECLARE patharray[ m.dircount + 1 ]
945:
946: * Cut out the next set of characters between the slashes
947: m.firstchar = AT( "\", m.dirstring, m.dircount ) + 1
948:
949: m.pathlength = AT( "\", m.dirstring, m.dircount + 1 ) ;
950: - m.firstchar
951:
952: * And add them to the next array element
953: patharray[ m.dircount + 1 ] = SUBSTR( m.dirstring, ;
954: m.firstchar, m.pathlength )
955:
956: * Look for the next directory name in the path string
957: m.dircount = m.dircount + 1
958:
959: ENDDO
960:
961: * Point the popup variable at the last element in the array
962: mpath = ALEN( patharray )
963: RETURN
964:
965: *****
966: CASE DOS
967: *****
968:
969: * Create a popup with all of the file names and its subdirection i
970: the current directory
971: * This will be based on an array as well
972:
973: * Create an array with all the files matching the current wild car
974:
975: * ADIR() creates an array with 5 columns.
976:
977: PRIVATE startsort
978:
979: * Fill an array with directory names only
980: =ADIR( dirarray, " ", "d")
981: SIZE = ALEN( dirarray, 1 )
982: IF dirarray[ 1, 1 ] = " "
983: =ADEL( dirarray, 1 )
984: SIZE = SIZE - 1
985: DECLARE dirarray[ size, 5 ]
986:
987: * We must be in the root directory "\"
988: * Add one more row to the directory array
989: SIZE = SIZE + 1
990:
991:
992:
993:
994:
995:
996:
997:
998:
999:
1000:

```

RESTORE Procedure NEWFILEPOP

```

1001: DECLARE dirarray[ SIZE, 5 ]
1002:
1003: * Push all the rows down by one
1004: =AINS( dirarray, 1 )
1005:
1006: * Fill in the first directory name in the array
1007: * a bug in the popups makes it refuse to display a
1008: * prompt of "\", use "\\\" to make one \ appear
1009: * even then the bar will automatically be non-selectable
1010: * which in this case is fine
1011: dirarray[ 1, 1 ] = "\\\"
1012:
1013: * Start the sort after the root name
1014: ENDIF
1015:
1016: IF ALEN( dirarray, 1 ) > 2
1017:
1018: * Sort the array starting at the starting row
1019: =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1020: ENDIF
1021: FOR i = 1 TO ALEN( dirarray, 1 )
1022:   dirarray[ i, 1 ] = "[\" + dirarray[ i, 1 ] + "]"
1023: ENDFOR
1024:
1025: IF ADIR( filearray, m.wildcard ) = 0
1026:   SIZE = ALEN( dirarray, 1 )
1027:   DECLARE filearray[ size, 5 ]
1028:   =ACOPY( dirarray, filearray )
1029: ELSE
1030:   stop = ALEN( dirarray, 1 )
1031:   FOR i = 1 TO stop
1032:     SIZE = ALEN( filearray, 1 )
1033:     DECLARE filearray[ size + 1, 5 ]
1034:     =AINS( filearray, 1 )
1035:     filearray[ 1, 1 ] = dirarray[ alen( dirarray, 1 ), 1 ]
1036:     IF ALEN( dirarray, 1 ) > 1
1037:       DECLARE dirarray[ alen( dirarray, 1 ) - 1, 5 ]
1038:     ENDIF
1039:   ENDFOR
1040:   mfile = 1
1041:   RETURN
1042: ENDIF
1043: *****
1044: CASE WINDOWS
1045: *****
1046:
1047: * Create a popup with all of the file names and its subdirection i
1048: the current directory
1049: * This will be based on an array as well
1050:
1051: * Create an array with all the files matching the current wild car
1052: => n
1053:
1054: * ADIR() creates an array with 5 columns.
1055: PRIVATE startsort
1056: * Fill an array with directory names only
1057: =ADIR( dirarray, "", "p")
1058: SIZE = ALEN( dirarray, 1 )
1059: IF dirarray[ 1, 1 ] = "."
1060:   =ADEL( dirarray, 1 )
1061:   SIZE = SIZE - 1
1062: DECLARE dirarray[ size, 5 ]
1063: ELSE
1064:   * We must be in the root directory "\"
1065:   * Add one more row to the directory array

```

RESTORE.AC1 10-3-94 3:01p

```

1065: SIZE = SIZE + 1
1066: DECLARE dirarray[ SIZE, 5 ]
1067:
1068: * Push all the rows down by one
1069: =AINS( dirarray, 1 )
1070:
1071: * Fill in the first directory name in the array
1072: * a bug in the popups makes it refuse to display a
1073: * prompt of "\", use "\\\" to make one \ appear
1074: * even then the bar will automatically be non-selectable
1075: * which in this case is fine
1076: dirarray[ 1, 1 ] = "\\\"
1077:
1078: * Start the sort after the root name
1079: ENDIF
1080:
1081: IF ALEN( dirarray, 1 ) > 2
1082:
1083: * Sort the array starting at the starting row
1084: =ASORT( dirarray, AELEMENT( dirarray, 2, 1 ) )
1085: ENDIF
1086: FOR i = 1 TO ALEN( dirarray, 1 )
1087:   dirarray[ i, 1 ] = "[\" + dirarray[ i, 1 ] + "]"
1088: ENDFOR
1089:
1090: IF ADIR( filearray, m.wildcard ) = 0
1091:   SIZE = ALEN( dirarray, 1 )
1092:   DECLARE filearray[ size, 5 ]
1093:   =ACOPY( dirarray, filearray )
1094: ELSE
1095:   stop = ALEN( dirarray, 1 )
1096:   FOR i = 1 TO stop
1097:     SIZE = ALEN( filearray, 1 )
1098:     DECLARE filearray[ size + 1, 5 ]
1099:     =AINS( filearray, 1 )
1100:     filearray[ 1, 1 ] = dirarray[ alen( dirarray, 1 ), 1 ]
1101:     IF ALEN( dirarray, 1 ) > 1
1102:       DECLARE dirarray[ alen( dirarray, 1 ) - 1, 5 ]
1103:     ENDIF
1104:   ENDFOR
1105:   mfile = 1
1106:   RETURN
1107: ENDIF
1108: *****
1109: CASE DOS
1110: *****
1111:
1112: * Create a popup with all of the file names and its subdirection i
1113: the current directory
1114: * This will be based on an array as well
1115:
1116: * Create an array with all the files matching the current wild car
1117: => n
1118:
1119: * ADIR() creates an array with 5 columns.
1120: PRIVATE startsort
1121: * Fill an array with directory names only
1122: =ADIR( dirarray, "", "p")
1123: SIZE = ALEN( dirarray, 1 )
1124: IF dirarray[ 1, 1 ] = "."
1125:   =ADEL( dirarray, 1 )
1126:   SIZE = SIZE - 1
1127: DECLARE dirarray[ size, 5 ]
1128: ELSE
1129:   * We must be in the root directory "\"
1130:   * Add one more row to the directory array

```

RESTORE Function PATHSTRING

Page 9 of 10

```

1131: m.ppath = patharray[ 1 ]
1132: * If the path popup is pointing to a subdirectory
1133: IF mpath > 1
1134: * Add all the subdirectories to the path string
1135: FOR i = 2 TO mpath
1136: m.ppath = m.ppath + "\" + patharray[ i ]
1137: NEXT
1138: ENDIF
1139: * End the path with one last slash for good luck
1140: m.ppath = m.ppath + "\"
1141: RETURN m.ppath
1142: *****
1143: CASE WINDOWS
1144: *****
1145: * Convert an array of subdirectories, such as PathArray,
1146: * into a legal path string for use with SET DEFAULT
1147: * Use the current value of the path popup as the
1148: * ending point on the path
1149: PRIVATE ppath
1150: * Start with the drive name
1151: m.ppath = patharray[ 1 ]
1152: * If the path popup is pointing to a subdirectory
1153: IF mpath > 1
1154: * Add all the subdirectories to the path string
1155: FOR i = 2 TO mpath
1156: m.ppath = m.ppath + "\" + patharray[ i ]
1157: NEXT
1158: ENDIF
1159: * End the path with one last slash for good luck
1160: m.ppath = m.ppath + "\"
1161: RETURN m.ppath
1162: *****
1163: ENDCASE
1164: *
1165: *
1166: *
1167: *
1168: *
1169: *
1170: *
1171: *
1172: *
1173: RETURN m.ppath
1174: *****
1175: ENDCASE
1176: *
1177: *
1178: *
1179: *
1180: *
1181: *
1182: *
1183: *
1184: *
1185: *
1186: *
1187: *
1188: *
1189: *
1190: *
1191: *
1192: *
1193: *
1194: *
1195: *
1196: *

```

RESTORE Procedure PKUNZIP

```

1197: *
1198: *
1199: *
1200: *
1201: *
1202: *
1203: *
1204: *
1205: *
1206: *
1207: *
1208: *
1209: *
1210: *
1211: *
1212: *
1213: *
1214: *
1215: *
1216: *
1217: *
1218: *
1219: *
1220: *
1221: *
1222: *
1223: *
1224: *
1225: *
1226: *
1227: *
1228: *
1229: *
1230: *
1231: *
1232: *
1233: *
1234: *
1235: *

```

08/09/94	DD.SPR	09:39:55
Author's Name Copyright (c) 1994 Company Name Address City, Zip Description: This program was automatically generated by GENSCRN.		

```

1: *
2: *
3: *
4: *
5: *
6: *
7: *
8: *
9: *
10: *
11: *
12: *
13: *
14: *
15: *
16: *
17: *
18: *
19: *
20: *
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22: *
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38: *
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40: *
41: *
42: *
43: *
44: *
45: *
46: *
47: *
48: *
49: *
50: *
51: *
52: *
53: *
54: *
55: *
56: *
57: *
58: *
59: *
60: *
61: *
62: *
63: *
64: *
65: *
66: *

```

```

#REGION 0
REGIONAL m.curraea, m.talkstat, m.compstat

```

```

IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
ELSE
  m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

IF NOT WEXIST("w_dd") ;
  OR UPPER(WTITLE("w_dd")) = "w_dd.pjx" ;
  OR UPPER(WTITLE("w_dd")) = "w_dd.scx" ;
  OR UPPER(WTITLE("w_dd")) = "w_dd.mnx" ;
  OR UPPER(WTITLE("w_dd")) = "w_dd.prg" ;
  OR UPPER(WTITLE("w_dd")) = "w_dd.frx" ;
  OR UPPER(WTITLE("w_dd")) = "w_dd.qpr" ;
  DEFINE WINDOW w_dd ;
    AT 0,000,0,000 ;
    SIZE 30,000,99,200 ;
    TITLE "Question - Data Dictionary" ;
    FONT "MS Sans Serif",8 ;
    FLOAT ;
    NOCLOSE ;
    MINIMIZE ;
    SYSTEM ;
    MOVE WINDOW w_dd CENTER
  ENDIF

```

DD/Windows Setup Code - SECTION 2

```

*
*
*
*
*

```

```

67: #REGION 1
68: SELECT 0
69: USE area INDEX area
70: SELECT 0
71: USE enum INDEX enum
72: SELECT 0
73: USE VAL INDEX VAL
74: SELECT 0
75: USE dict INDEX dictid, dictname
76: SET RELATION TO id INTO enum, id INTO VAL
77: SELECT 0
78: USE goals INDEX goals
79: SELECT 0
80: USE quals INDEX quals
81: SELECT dict
82: SET ORDER TO 2
83: COPY TO ARRAY mdict FIELDS name, id
84: mq = 1
85:
86:
87:
88:
89:
90:
91:
92:
93:
94:
95:
96:
97:
98:
99:
100:
101:
102:
103:
104:
105:
106:
107:
108:
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112:
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115:
116:
117:
118:
119:
120:
121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:

```

DD/Windows Screen Layout

```

#REGION 1
IF WVISIBLE("w_dd")
  ACTIVATE WINDOW w_dd SAME
ELSE
  ACTIVATE WINDOW w_dd NOSHOW
ENDIF
@ 28,077,25,600 GET mbuttons ;
  PICTURE "a*HN \<Edit;\<Add;\<Delete;\<Quit" ;
  SIZE 1,917,7,500,0,750 ;
  DEFAULT 1 ;
  FONT "terminal", 8 ;
  VALID _qsf0kpt2i( )
  @ 1,077,7,400 GET mq ;
  PICTURE "a&N" ;
  FROM mdict ;
  SIZE 26,833,50,625 ;
  DEFAULT 1 ;
  FONT "terminal", 8 ;
  VALID _qsf0kpt7d( )

IF NOT WVISIBLE("w_dd")
  ACTIVATE WINDOW w_dd
ENDIF
READ CYCLE MODAL
RELEASE WINDOW w_dd
#REGION 0
SET readborder &rborder
IF m.talkstat = "ON"
  SET TALK ON
ENDIF
IF m.compstat = "ON"
  SET COMPATIBLE ON
ENDIF

```

DD/Windows Cleanup Code

DD/Windows Supporting Procedures and Functions

```

133: *
134: *
135: *
136: *
137: *
138: *
139: *
140: *
141: *
142: #REGION 1
143: SELECT area
144: USE
145: SELECT enum
146: USE
147: SELECT VAL
148: USE
149: SELECT dict
150: USE
151: SELECT goals
152: USE
153: SELECT quals
154: USE
155: RETURN
156: *
157: *
158: *
159: *
160: *
161: *
162: *
163: *
164: *
165: *
166: *
167: *
168: *
169: *
170: *
171: #REGION 1
172: FUNCTION validobj
173: PRIVATE msel,mvalid
174: mvalid = .f.
175: msel = SELECT()
176: SELECT quals
177: SEEK mdict[mq,2]
178: IF FOUND()
179:   IF EMPTY(rules) AND EMPTY(ruleso)
180:     mvalid = .t.
181:   ELSE
182:     =errmsg("Delete was not allow, the object was occupied",2)
183:   ENDIF
184: ELSE
185:   mvalid = .t.
186: ENDIF
187: RETURN mvalid
188: *
189: *
190: FUNCTION qualdel
191: PRIVATE msel
192: msel = SELECT()
193: SELECT dict
194: SET ORDER TO 1
195: SEEK mdict[mq,2]
196: IF FOUND()
197:   = popupshow("deleting...")
198: DO CASE

```

```

199: CASE dict.datatype $ "ELM"
200:   SELECT enum
201:   DELETE FOR id = dict.id
202:   PACK
203: CASE dict.datatype $ "N"
204:   SELECT VAL
205:   DELETE FOR id = dict.id
206:   PACK
207: ENDCASE
208: SELECT dict
209: DELETE
210: PACK
211: = popuhide()
212: ENDF
213: SELECT (msel)
214: RETURN
215: *
216: FUNCTION resetdata
217: PRIVATE msel
218: msel = SELECT()
219: SELECT dict
220: SET ORDER TO 2
221: COPY TO ARRAY mdict FIELDS name, id
222: SELECT (msel)
223: RETURN
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: *
243: *
244: *
245: *
246: *
247: *
248: *
249: *
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *

```

_QSF0KPT21

Function Origin:

From Platform: Windows
 From Screen: DD, mbuttons
 Variable: Record Number: 2
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 1

mbuttons VALID

FUNCTION _qsf0kpt21 && mbuttons VALID

```

#REGION 1
DO CASE
CASE mbuttons = 1
  IF mq > 0
    DO dedit.spr WITH mdict[mq,2], mdict[mq,1]
  ENDIF
CASE mbuttons = 2 && add
  m.adding = .t.
  SELECT dict
  SET ORDER TO 1
  GOTO BOTTOM
  m.id = id + 1
  m.name = ""
  DO dedit.spr WITH m.id, m.name
CASE mbuttons = 3 && delete
  mdel = validobj()
  IF mdel
    = qualdel()
  ENDIF
CASE mbuttons = 4 && quit
  mok = .t.
  CLEAR READ
ENDCASE
DO resetdata

```

SHOW GETS

265: *
266: *
267: *
268: *
269: *
270: *
271: *
272: *
273: *
274: *
275: *
276: *
277: *
278: *
279: *
280: *
281: *
282: *
283: *
284: *
285: *
286: *
287: *

_qsfoKPT7d mq VALID

Function Origin:

From Platform: Windows Record Number: 3

From Screen: mq

Variable: VALID Clause

Called By: List

Object Type: 2

Snippet Number:

FUNCTION _qsfoKPT7d && mq VALID
#REGION 1
IF mq > 0
DO ddedit.spr WITH mdict[mq,2], mdict[mq,1]
ENDIF
*: EOF: DD.ac1

[illegible]

179:		IF NOT WVISIBLE("w_goal")	
180:		ACTIVATE WINDOW w_goal	
181:		ENDIF	
182:			
183:		READ CYCLE MODAL	
184:			
185:		RELEASE WINDOW w_goal	
186:			
187:		#REGION 0	
188:		IF m.talkstat = "ON"	
189:		SET TALK ON	
190:		ENDIF	
191:			
192:		IF m.compstat = "ON"	
193:		SET COMPATIBLE ON	
194:		ENDIF	
195:			
196:			
197:		ENDCASE	
198:			
199:	*		
200:	*		
201:	*		
202:	*		
203:	*		
204:	*		
205:	*		
206:	*		
207:	*		
208:	*		
209:	*		
210:	*		
211:	*		
212:	*		
213:	*		
214:	*		
215:		FUNCTION _qsfokpv8r	&&
216:		#REGION 1_qsfokpv8r	
217:		DO CASE	
218:		CASE mbuttons = 1	
219:		DEACTIVATE WINDOW w_goal	
220:		DO object.spr WITH "g"	
221:		ACTIVATE WINDOW w_goal	
222:		DO setgoals	
223:		CASE mbuttons = 2 && ok	
224:		mok = .f.	
225:		CLEAR READ	
226:		CASE mbuttons = 3 && cancel	
227:		mok = .f.	
228:		CLEAR READ	
229:		ENDCASE	
230:		SHOW GETS	
231:			
232:	*		
233:	*		
234:	*		
235:	*		
236:	*		
237:	*		
238:	*		
239:	*		
240:	*		
241:	*		
242:	*		
243:	*		
244:	*		

```

mbuttons VALID
Function Origin:
From Platform:
From Screen:
Variable:
Called By:
Object Type:
Snippet Number:
1
Windows
PLAN, Reco
mbuttons
VALID Clause
Push Button
1
```

&& mbuttons VALID

mg VALID

Function Origin:

Windows
PLAN,
mg
VALID C
List
2

3

**VALID clause
List
2**

```

245: *
246: *
247: * FUNCTION _qsf0kpvcr    && mg VALID
248: #REGION 1_
249: DO edgoal
250:
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *
265: *
266: * FUNCTION _qsf0kpvqb    && mbuttons VALID
267: #REGION 1_
268: DO CASE
269: CASE mbuttons = 1
270: DEACTIVATE WINDOW w_goal
271: DO object.spr WITH "G"
272: ACTIVATE WINDOW w_goal
273: DO setgoals
274: CASE mbuttons = 2    && ok
275: mok = .T.
276: CLEAR READ
277: CASE mbuttons = 3    && cancel
278: mok = .F.
279: CLEAR READ
280: END CASE
281: SHOW GETS
282:
283:
284:
285: *
286: *
287: *
288: *
289: *
290: *
291: *
292: *
293: *
294: *
295: *
296: *
297: *
298: *
299: * FUNCTION _qsf0kpvw8    && mg VALID
300: #REGION 1_
301: DO edgoal
302: * EOF: PLAN.ac1
303:

```

_QSF0KPVQB mbuttons VALID

Function Origin:

From Platform: MS-DOS

From Screen: PLAN,

Variable: mbuttons

Called By: VALID Clause

Object Type: Push Button

Snippet Number: 3

Record Number: 7

_QSF0KPVW8 mg VALID

Function Origin:

From Platform: MS-DOS

From Screen: PLAN,

Variable: mg

Called By: VALID Clause

Object Type: List

Snippet Number: 4

Record Number: 8

129: <---RETURN

130: *: EOF: ERRMSG.act

```

1:
2:
3:
4:
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31:
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33:
34:
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36:
37:
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39:
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41:
42:
43:
44:
45:
46:
47:
48:
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50:
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52:
53:
54:
55:
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57:
58:
59:
60:
61:
62:
63:
64:
65:
66:

```

08/09/94	DICT.SPR	09:40:02
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description: This program was automatically generated by GENSCRN.		

PARAMETERS m.newid

DICT/Windows Setup Code - SECTION 1

```

#REGION 1
PRIVATE mp, mpm, msel, m.adding
DIMENSION enum[20], enumr[20]
msel = SELECT()
SELECT dict
enum = " "
enumr = 0
mp = 1
m.adding = .F.
m.recno = RECNO()
SEEK m.newid
IF !FOUND()
    m.adding = .T.
    SCATTER MEMVAR BLANK
    m.id = m.newid
    SHOW GET m.datatype ENABLE
ELSE
    SCATTER MEMVAR
ENDIF
DO setenum
*do setval

```

```

#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat

```

```

IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

DICT.AC1 10-3-94 3:01p Windows Window definitions

```

67:
68:
69:
70:
71:
72:
73:
74:
75:
76:
77:
78:
79:
80:
81:
82:
83:
84:
85:
86:
87:
88:
89:
90:
91:
92:
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97:
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101:
102:
103:
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105:
106:
107:
108:
109:
110:
111:
112:
113:
114:
115:
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117:
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119:
120:
121:
122:
123:
124:
125:
126:
127:
128:
129:
130:
131:
132:

```

```

*
*
*
IF NOT HEXIST("dict")
OR UPPER(WTITLE("dict")) == "DICT.PJK"
OR UPPER(WTITLE("dict")) == "DICT.SCX"
OR UPPER(WTITLE("dict")) == "DICT.MNX"
OR UPPER(WTITLE("dict")) == "DICT.PRG"
OR UPPER(WTITLE("dict")) == "DICT.FRX"
OR UPPER(WTITLE("dict")) == "DICT.QPR"
DEFINE WINDOW dict
AT 0.000, 0.000
SIZE 26.250, 68.875
TITLE "Dictionary Editor"
FONT "Terminal", 8
FLOAT
NOCLOSE
MINIMIZE
SYSTEM
COLOR RGB(0, 255, 255)
MOVE WINDOW dict CENTER
ENDIF

```

DICT/Windows Screen Layout

```

#REGION 1
IF WVISIBLE("dict")
ACTIVATE WINDOW dict SAME
ELSE
ACTIVATE WINDOW dict NOSHOW
ENDIF
a 1.333, 55.250 SAY "Type"
FONT "terminal", 8
a 22.167, 10.500 SAY "Hi"
FONT "terminal", 8
a 22.167, 30.000 SAY "Lo"
FONT "terminal", 8
a 22.167, 48.000 SAY "Units"
FONT "terminal", 8
a 1.333, 3.000 SAY "id"
FONT "terminal", 8
a 1.417, 12.000 SAY "Name"
FONT "terminal", 8
a 20.167, 9.000 SAY "Width"
FONT "terminal", 8
a 20.167, 30.000 SAY "Decimals"
FONT "terminal", 8
a 22.083, 3.000 SAY "Range"
FONT "terminal", 8
a 8.667, 3.375 SAY "Enum"
FONT "terminal", 8
a 20.167, 3.000 SAY "Val"
FONT "terminal", 8
a 1.167, 6.250 GET m.id
SIZE 1.000, 3.125
DEFAULT " "
FONT "terminal", 8
DISABLE
a 1.167, 18.250 GET m.name

```

```

133: SIZE 1,000,33.875 ;
134: DEFAULT " " ;
135: FONT "Terminal", 8
136: a 1.083,60.500 GET m.datatype ;
137: PICTURE "a N;E;M;L" ;
138: SIZE 1,500,4.375 ;
139: DEFAULT "N" ;
140: FONT "Terminal", 8 ;
141: VALID qsf0kpy4x() ;
142: DISABLE
143: a 3.167,21.250 GET dict.askable ;
144: SIZE 1,000,4.625 ;
145: DEFAULT .F. ;
146: FONT "Terminal", 8
147: a 5.000,3.250 EDIT m.question ;
148: SIZE 3,000,61.750,0.000 ;
149: DEFAULT " " ;
150: FONT "Terminal", 8 ;
151: SCROLL ;
152: WHEN dict.askable
153: a 10.167,3.125 GET mp ;
154: PICTURE "a&N" ;
155: FROM enum ;
156: SIZE 9,333,62.000 ;
157: DEFAULT 1 ;
158: FONT "Terminal", 8 ;
159: WHEN m.datatype $ "EML" ;
160: VALID qsf0kpy8w()
161: a 20.167,16.750 GET m.width ;
162: SIZE 1,000,5.500 ;
163: DEFAULT 0 ;
164: FONT "Terminal", 8 ;
165: WHEN m.datatype = "N" ;
166: DISABLE
167: a 20.167,39.250 GET m.dec ;
168: SIZE 1,000,11.500 ;
169: DEFAULT 0 ;
170: FONT "Terminal", 8 ;
171: WHEN m.datatype = "N" ;
172: DISABLE
173: a 22.167,16.750 GET m.hi ;
174: SIZE 1,000,10.000 ;
175: DEFAULT 0 ;
176: FONT "Terminal", 8 ;
177: WHEN m.datatype = "N" ;
178: DISABLE
179: a 22.167,33.250 GET m.lo ;
180: SIZE 1,000,13.000 ;
181: DEFAULT 0 ;
182: FONT "Terminal", 8 ;
183: WHEN m.datatype = "N" ;
184: DISABLE
185: a 22.167,54.250 GET m.units ;
186: SIZE 1,000,10.000 ;
187: DEFAULT " " ;
188: FONT "Terminal", 8 ;
189: WHEN m.datatype = "N" ;
190: DISABLE
191: a 24.000,25.500 GET m.buttons ;
192: PICTURE "a*HT OK:Cancel" ;
193: SIZE 1,917,8.375,0.750 ;
194: DEFAULT 1 ;
195: FONT "Terminal", 8 ;
196: VALID qsf0kpyf6()
197: a 3.167,3.000 SAY "Question Askable:" ;
198: FONT "Terminal", 8 ;

```

```

199: STYLE "T"
200: IF NOT HVISIBLE("dict")
201: [ACTIVATE WINDOW dict
202: ENDIF
203: READ CYCLE MODAL ;
204: WHEN _qsf0kpyj0()
205: RELEASE WINDOW dict
206: #REGION 0
207: SET readborder &rborder
208: IF m.talkstat = "ON"
209: SET TALK ON
210: ENDIF
211: IF m.compstat = "ON"
212: SET COMPATIBLE ON
213: ENDIF
214: *
215: *
216: *
217: *
218: *
219: *
220: #REGION 1
221: SELECT dict
222: GOTO m.qrecno
223: RETURN
224: *
225: *
226: *
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: *
241: *
242: *
243: #REGION 1
244: PROCEDURE edenum
245: SELECT enum
246: IF enumr[mp] > 0
247: GOTO enumr[mp]
248: ENDIF
249: *m.id = dict.id
250: DO enum.spr
251: DO setenum
252: SHOW GETS
253: SELECT dict
254: RETURN
255: *
256: *
257: *
258: *
259: *
260: *
261: *
262: *
263: *
264: *

```

DICT/Windows Cleanup Code

DICT/Windows Supporting Procedures and Functions

```

PROCEDURE setenum
enum = " "
enumr = 0
IF m.datatype $ "EML"
PRIVATE msel,i
msel = SELECT()
SELECT enum
SEEK m.id

```

```

265: i = 0
266: DO WHILE id = m.id
267:   i = i + 1
268:   enumr[i] = RECNO()
269:   enum[i] = mtext + " " + TRIM( enumerate )
270:   SKIP
271: ENDDO
272: mpn = i
273: mp = MIN(mpn, mp)
274: mp = MAX(1, mp)
275: IF enumr[mp] > 0
276:   GOTO enumr[mp]
277: ENDIF
278: SELECT (msel)
279: ENDIF
280: RETURN
281:
282: PROCEDURE setval
283: IF m.datatype $ "N"
284:   PRIVATE msel, i
285:   msel = SELECT()
286:   SELECT VAL
287:   SCATTER MEMVAR
288:   SHOW GETS
289:   SELECT (msel)
290: ENDIF
291: RETURN
292:
293:
294:
295:
296:
297:
298:
299:
300:
301:
302:
303:
304:
305:
306:
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328:
329:
330:

```

```

_QSF0KPY4X      m.datatype VALID
Function Origin:
From Platform:  Windows      Record Number:  15
From Screen:   m.datatype
Variable:      VALID Clause
Called By:     Popup
Object Type:   1
Snippet Number:

```

```

FUNCTION _qsf0kpy4x  && m.datatype VALID
#REGION 1
SHOW GET m.datatype DISABLE

```

```

_QSF0KPY8W      mp VALID
Function Origin:
From Platform:  Windows      Record Number:  18
From Screen:   mp
Variable:      mp
Called By:     VALID Clause
Object Type:   List
Snippet Number:  2

```

```

FUNCTION _qsf0kpy8w  && mp VALID
#REGION 1
DO edenr

```

```

_QSF0KPYF6      mbuttons VALID
Function Origin:
From Platform:  Windows      Record Number:  24
From Screen:   DICT,
Variable:      mbuttons
Called By:     VALID Clause
Object Type:   Push Button
Snippet Number:  3

```

```

FUNCTION _qsf0kpyf6  && mbuttons VALID
DO CASE
CASE mbuttons = 1  && ok
  SELECT dict
  GATHER MEMVAR
  IF m.datatype $ "N"
    SELECT VAL
    GATHER MEMVAR
  ENDIF
CASE mbuttons = 2  && cancel
  mok = .F.
ENDCASE

```

```

_QSF0KPYJ0      Read Level When
Function Origin:
From Platform:  Windows
From Screen:   DICT
Called By:     READ Statement
Snippet Number:  4

```

```

FUNCTION _qsf0kpyj0  && Read Level When
#REGION 1
* When Code from screen: DICT

```

```

IF m.datatype $ "N"
PRIVATE msel
msel = SELECT()
SELECT VAL
SCATTER MEMVAR
SHOW GET mp DISABLE
SHOW GET m.width ENABLE
SHOW GET m.dec ENABLE
SHOW GET m.hi ENABLE
SHOW GET m.lo ENABLE
SHOW GET m.units ENABLE
SHOW GETS
ENDIF

```

```

* EOF: DICT.ac1

```

08/09/94	KBEDIT.SPR	09:40:05
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City,	Zip	
Description:		
This program was automatically generated by GENSCRN.		

```

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```

```

#REGION 0
REGIONAL m.curarea, m.talkstat, m.compstat

```

```

-IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
-ELSE
  m.talkstat = "OFF"
ENDIF

```

```

m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON

```

Windows Window definitions

```

-IF NOT WEXIST("kbedit") ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.PJX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.SCX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.MNX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.PRG" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.FRX" ;
  OR UPPER(WTITLE("KBEDIT")) == "KBEDIT.QPR" ;
  DEFINE WINDOW kbedit ;
  AT 0.000, 0.000 ;
  SIZE 29.667, 64.250 ;
  TITLE "Knowledge Base Rule Editor" ;
  FONT "Terminal", 8 ;
  FLOAT ;
  NOCLOSE ;
  MINIMIZE ;
  SYSTEM ;
  COLOR RGB(, 128, 128, 128)
  MOVE WINDOW kbedit CENTER
ENDIF

```

KBEDIT/Windows Setup Code - SECTION 2

```

*
*
*
*

```

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```

```

*
#REGION 1
PRIVATE mp, me, ma, mpm, man, ntriples, ptop
DIMENSION prem[50], premm[50], triple[50,5]
DIMENSION premo[50], premm[50], premm[50]
DIMENSION act[50], actr[50], actelse[50], actelser[50]

PRIVATE msel
msel = SELECT()
SELECT 0
USE fact INDEX fact
SELECT 0
USE premise INDEX premise
SET RELATION TO fact INTO fact
SELECT 0
USE action INDEX action
SELECT 0
USE rule INDEX rulearea, salience, rule
SET RELATION TO premise INTO premise, action INTO action
SELECT area
SET RELATION TO area INTO rule
SELECT rule
SET TOPIC TO "RULE"
mp = 1
act = " "
actr = 0
ma = 1
me = 1
DO setprem
DO setact
DO setelse
DO setaction

```

KBEDIT/Windows Screen Layout

```

*
*
*
*
*
*
#REGION 1
-IF WVISIBL("kbedit")
  ACTIVATE WINDOW kbedit SAME
-ELSE
  ACTIVATE WINDOW kbedit NOSHOW
ENDIF
a 3.167, 1.625 SAY "Rule:" ;
FONT "Terminal", 8 ;
STYLE "T"
a 1.167, 18.250 GET m.areaname ;
SIZE 1.000, 34.000 ;
DEFAULT " " ;
FONT "Terminal", 8 ;
DISABLE
a 3.167, 7.750 GET rule.rule ;
SIZE 1.000, 25.000 ;
DEFAULT 0 ;
FONT "Terminal", 8 ;
DISABLE
a 5.000, 1.500 GET minyprem ;
PICTURE "a*HN \<IF:" ;
SIZE 1.500, 7.250, 0.750 ;
DEFAULT 1 ;

```



```

133: FONT "Terminal", 8 ;
134: VALID qsf0kq0sa() ;
135: MESSAGE "premises" ;
136: @ 7.167,1.625 GET mp ;
137: PICTURE "a&n" ;
138: FROM prem ;
139: SIZE 4.667,50.875 ;
140: DEFAULT 1 ;
141: FONT "Terminal", 8 ;
142: @ 13.000,1.500 GET minvact ;
143: PICTURE "a*HN \<THEN:" ;
144: SIZE 1.583,7.125,0.750 ;
145: DEFAULT 1 ;
146: FONT "Terminal", 8 ;
147: VALID qsf0kq0wk() ;
148: MESSAGE "actions" ;
149: @ 15.167,1.625 GET ma ;
150: PICTURE "a&n" ;
151: FROM act ;
152: SIZE 4.667,50.875 ;
153: DEFAULT 1 ;
154: FONT "Terminal", 8 ;
155: @ 21.000,1.500 GET minvelse ;
156: PICTURE "a*HN \<ELSE:" ;
157: SIZE 1.583,7.250,0.750 ;
158: DEFAULT 1 ;
159: FONT "Terminal", 8 ;
160: VALID qsf0kq10r() ;
161: MESSAGE "actions (Else)" ;
162: @ 23.167,1.625 GET me ;
163: PICTURE "a&n" ;
164: FROM actelse ;
165: SIZE 4.667,50.875 ;
166: DEFAULT 1 ;
167: FONT "Terminal", 8 ;
168: @ 1.000,54.000 GET mbutton ;
169: PICTURE "a*VN \<Next;\<Prev;\<Browse;\<Edit;e\<xit" ;
170: SIZE 1.750,8.875,1.083 ;
171: DEFAULT 1 ;
172: FONT "Terminal", 8 ;
173: VALID qsf0kq14z() ;
174: @ 1.167,1.500 SAY "Knowledge Base:" ;
175: FONT "Terminal", 8 ;
176: STYLE "t" ;
177:
178: [IF NOT WVISTBLE("kbedit")
179: -- ACTIVATE WINDOW kbedit
180: -ENDIF
181:
182: READ CYCLE ;
183: WHEN setaction()
184:
185: RELEASE WINDOW kbedit
186:
187: #REGION 0
188:
189: SET readborder &rborder
190:
191: [IF m.talkstat = "ON"
192: SET TALK ON
193: -ENDIF
194: [IF m.compostat = "ON"
195: SET COMPATIBLE ON
196: -ENDIF
197:
198:

```

```

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```

```

#REGION 1
SELECT rule
USE
SELECT premise
USE
SELECT fact
USE
SELECT action
USE
SELECT (msel)
RETURN

```

KBEDIT/Windows Supporting Procedures and Functions

```

#REGION 1
PROCEDURE setprem
PRIVATE msel, i, j, jj, K, N, P, R, s
msel = SELECT()
SELECT premise
SEEK rule.premise
i = 0
N = 0
prem = ""

* collect all triples
DO WHILE clause = rule.premise .AND. !EOF()
i = i + 1
triple[i,1] = premise.op
triple[i,2] = premise.fact
triple[i,3] = premise.factr
triple[i,4] = 0
triple[i,5] = RECNO()
SKIP
ENDDO
ntriples = i

* collect leaf nodes
SELECT fact
FOR j = 1 TO ntriples
IF EMPTY( triple[j,1] )
SEEK triple[j,2]
IF FOUND()
N = N + 1
IF OBJECT = "s"
SELECT dict
ELSE
SELECT disease
ENDIF
SEEK fact.id
m.name = name
SELECT fact
m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )

```

```

265: SELECT dict
266:
267: FOR jj = 1 TO 2
268:   K = AT( "a", m.val, jj )
269:   IF K = 0
270:     EXIT
271:   ENDIF
272:   p = VAL( SUBSTR( m.val, K + 1 ) )
273:   SEEK p
274:   m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TR
275:   NEXT
276:
277: SELECT fact
278:   prem[n] = TRIM( m.name ) + " " + op + " " + m.val
279:   prem[n] = j
280:   premo[n] = ""
281:   triple[j, 4] = N
282: ENDIF
283:
284: SELECT premise
285:
286:   prem = .F.
287:   ptop = 0
288:   IF ntriples > 0
289:     = PUSH( ntriples )    && root of expression tree
290:   ENDIF
291:
292: * parse the expression tree
293: DO WHILE !empty()
294:   i = POP()
295:   IF !EMPTY( triple[i, 1] )
296:     * operator node
297:     IF !premi[i]
298:       * not yet marked; defer
299:       premi[i] = .T.
300:       = PUSH( i )
301:       = PUSH( triple[i, 3] )
302:       = PUSH( triple[i, 2] )
303:     ELSE
304:       * already marked...
305:       j = triple[i, 2], 4] && left term
306:       k = triple[i, 3], 4] && right term
307:       triple[i, 4] = j
308:       IF LEFT( premo[k], 1 ) = triple[i, 1]
309:         * same operator; fold tree
310:         s = hlink( SUBSTR( premi[j], 3 ) ) && add link
311:         premi[j] = " " + s
312:         premo[k] = IF(EMPTY(premo[k]), ALLTRIM(STR(i)), premo[k] +
313:         => " " + ALLTRIM(STR(i)))
314:       ELSE
315:         s = hlink( premi[j] )
316:         premi[j] = " " + s
317:         s = hlink( premo[k] )
318:         premo[k] = triple[i, 1] + " " + s && opcode and right chil
319:         => d
320:         premo[k] = IIF(EMPTY(premo[k]), ALLTRIM(STR(i)), premo[k] +
321:         => ALLTRIM(STR(i)))
322:         * indent remaining terms
323:         FOR R = 1 TO N
324:           IF R <> j .AND. R <> k
325:             premi[r] = SPACE(2) + premi[r]
326:           ENDIF
327:         NEXT

```

```

327:
328: * bridge missing links
329: FOR R = 1 TO N
330:   IF R > j .AND. R < k
331:     s = premi[r]
332:     IF EMPTY( LEFT( s, 1 ) )
333:       premi[r] = " " + SUBSTR( s, 2 )
334:     ENDIF
335:   NEXT
336:
337: * cleanup
338: FOR R = j TO K-1
339:   * complete missing links
340:   = vlink( " " + " " )
341:   = vlink( " " + " " )
342:   = vlink( " " + " " )
343:   = vlink( " " + " " )
344: NEXT
345: ENDIF
346: ENDDO
347:
348: mpn = N
349: mp = MIN( mpn, mp )
350: mp = MAX( 1, mp )
351: SELECT (msel)
352: RETURN
353:
354: FUNCTION vlink
355:   PARAMETERS FROM, TO
356:   PRIVATE i, s
357:   i = 1
358:   DO WHILE EMPTY( SUBSTR( premi[r], i, 1 ) )
359:     i = i + 1
360:   ENDDO
361:   s = premi[r+1]
362:   * complete missing links
363:   IF SUBSTR( premi[r], i, 1 ) = FROM .AND. SUBSTR( s, i, 1 ) = TO
364:     premi[r+1] = LEFT( s, i-1 ) + " " + SUBSTR( s, i+1 )
365:   ENDIF
366:   RETURN ""
367:
368: FUNCTION hlink
369:   PARAMETERS s
370:   PRIVATE p
371:   p = ""
372:   DO WHILE EMPTY( LEFT( s, 2 ) )
373:     p = p + " "
374:     s = SUBSTR( s, 3 )
375:   ENDDO
376:   RETURN p + s
377:
378: FUNCTION PUSH
379:   PARAMETERS N
380:   ptop = ptop + 1
381:   premo[ptop] = N
382:   RETURN N
383:
384: FUNCTION POP
385:   PRIVATE N
386:   N = premo[ptop]
387:   ptop = ptop - 1
388:   RETURN N
389:
390: FUNCTION empty
391:   RETURN ptop < 1
392:

```

```

393: PROCEDURE setact
394: PRIVATE msel, i, j, K, p
395: msel = SELECT()
396: SELECT action
397: SEEK rule.action
398: i = 0
399: act = ""
400: actr = 0
401: DO WHILE clause = rule.action .AND. !EOF()
402: i = i + 1
403: actr[i] = RECNO()
404: IF OBJECT = "D"
405: SELECT disease
406: ELSE
407: SELECT dict
408: ENDIF
409: SEEK action.id
410: m.name = name
411: SELECT action
412: m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )
413: SELECT dict
414: FOR j = 1 TO 2
415: K = AT ( "a", m.val, j )
416: IF K = 0
417: EXIT
418: ENDIF
419: p = VAL( SUBSTR( m.val, K + 1 ) )
420: SEEK p
421: m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TRIM( na
=> me ) + ")" )
422: NEXT
423: SELECT action
424: act[i] = TRIM( m.name ) + " " + op + " " + m.val
425: SKIP
426: ENDDO
427: man = i
428: ma = MIN( man, ma )
429: ma = MAX( 1, ma )
430: IF actr[ma] > 0
431: GOTO actr[ma]
432: ENDIF
433: SELECT (msel)
434: RETURN
435:
436: PROCEDURE setelse
437: PRIVATE msel, i, j, K, p
438: msel = SELECT()
439: SELECT action
440: SEEK rule.else
441: i = 0
442: actelse = ""
443: actelser = 0
444: DO WHILE clause = rule.else .AND. !EOF()
445: i = i + 1
446: actelser[i] = RECNO()
447: IF OBJECT = "D"
448: SELECT disease
449: ELSE
450: SELECT dict
451: ENDIF
452: SEEK action.id
453: m.name = name
454: SELECT action
455: m.val = TRIM( IIF( TAG = "T", LEFT( TEXT, 80), VAL ) )
456: SELECT dict
457: FOR j = 1 TO 2

```

```

458: K = AT ( "a", m.val, j )
459: IF K = 0
460: EXIT
461: ENDIF
462: p = VAL( SUBSTR( m.val, K + 1 ) )
463: SEEK p
464: m.val = STRTRAN( m.val, "a" + LTRIM( STR( p ) ), "(" + TRIM( na
=> me ) + ")" )
465: NEXT
466: SELECT action
467: actelse[i] = TRIM( m.name ) + " " + op + " " + m.val
468: SKIP
469: ENDDO
470: man = i
471: IF EMPTY( man )
472: actelser[1] = ""
473: ELSE
474: me = MIN( man, me )
475: me = MAX( 1, me )
476: IF actelser[me] > 0
477: GOTO actelser[me]
478: ENDIF
479: ENDIF
480: SELECT (msel)
481: RETURN
482:
483: FUNCTION setaction
484: IF EMPTY( prem[1] )
485: SHOW GET minvprem DISABLE
486: SHOW GET mp DISABLE
487: ELSE
488: SHOW GET minvprem ENABLE
489: SHOW GET mp ENABLE
490: ENDIF
491: IF EMPTY( act[1] )
492: SHOW GET minvact DISABLE
493: SHOW GET ma DISABLE
494: ELSE
495: SHOW GET minvact ENABLE
496: SHOW GET ma ENABLE
497: ENDIF
498: IF EMPTY( actelse[1] )
499: SHOW GET minvelse DISABLE
500: SHOW GET me DISABLE
501: ELSE
502: SHOW GET minvelse ENABLE
503: SHOW GET me ENABLE
504: ENDIF
505: RETURN
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522: *

```

minvprem VALID

Function Origin:

From Platform: Windows
 From Screen: KBEDIT,
 Variable: minvprem
 Called By: VALID Clause
 Object Type: Push Button
 Snippet Number: 1

Record Number: 5

```

523: FUNCTION _qsf0kq0sa    && minvpem VALID
524: #REGION 1
525: PRIVATE msel
526: msel = SELECT()
527: SELECT premise
528: LOCATE FOR clause = rule.premise
529: SET TOPIC TO "PREMISE"
530: DO term.spr
531: DO setprem
532: SELECT (msel)
533: SHOW GETS
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```

Function Origin: minvact VALID

From Platform: minvact
From Screen: KBEDIT
Variable: minvact
Called By: minvact
Object Type: VALID Clause
Push Button
Snippet Number: 2

```

549: FUNCTION _qsf0kq0wk    && minvact VALID
550: #REGION 1
551: PRIVATE msel
552: msel = SELECT()
553: SELECT action
554: LOCATE FOR clause = rule.action
555: SET TOPIC TO "ACTION"
556: DO action.spr
557: SELECT (msel)
558: SHOW GETS
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```

Function Origin: minvse VALID

From Platform: minvse
From Screen: KBEDIT
Variable: minvse
Called By: minvse
Object Type: VALID Clause
Push Button
Snippet Number: 3

```

576: FUNCTION _qsf0kq10r    && minvse VALID
577: #REGION 1
578: PRIVATE msel
579: msel = SELECT()
580: SELECT action
581: LOCATE FOR clause = rule.else
582: SET TOPIC TO "ACTION"
583: DO actelse.spr
584: DO setelse
585: SHOW GETS
586: SELECT (msel)
587:
588:

```

```

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```

Function Origin: mbutton VALID

From Platform: KBEDIT
From Screen: mbutton
Variable: mbutton
Called By: VALID Clause
Object Type: Push Button
Snippet Number: 4

```

FUNCTION _qsf0kq14z    && mbutton VALID
#REGION 1
SELECT rule
DO CASE
CASE mbutton = 1
IF !EOF()
SKIP
ELSE
GOTO BOTTOM
ENDIF
m.goback = area != m.areaid
IF m.goback
GOTO m.recno
ENDIF
CASE mbutton = 2
IF !BOF()
SKIP -1
ELSE
GOTO TOP
ENDIF
m.goback = area != m.areaid
IF m.goback
GOTO m.recno
ENDIF
CASE mbutton = 3
SET TOPIC TO "BROWSE"
BROWSE FIELDS rule,salience FOR area = m.areaid NOEDIT
CASE mbutton = 4
SET TOPIC TO "EDIT"
DO rule.spr
CASE mbutton = 5
CLEAR READ
RETURN
ENDCASE
SCATTER MEMVAR
DO setprem
DO setact
DO setelse
DO setaction
SHOW GETS
mtopic = ALIAS()
SET TOPIC TO &mtopic
*: EOF: KBEDIT.ac1

```



```
133: *
134: * Variable: m.buttons
135: * Called By: VALID Clause
136: * Object Type: Push Button
137: * Snippet Number: 1
138: *
139: *
140: FUNCTION _qsf0kq4m3    && m.buttons VALID
141: #REGION 1
142: DO CASE
143: CASE m.buttons = 1
144:   m.item = ""
145: CASE m.buttons = 2
146:   m.item = marray[m.obj]
147: OTHERWISE
148:   m.item = ""
149: ENDCASE
150: *: EOF: OBLIST.ac1
```

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1: *
2: *
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65: *
66: *
```

08/09/94	DDEDIT.SPR	09:40:13
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description: This program was automatically generated by GENSCRN.		

PARAMETERS m.newwid, m.newnm

DDEDIT/Windows Setup Code - SECTION 1

```
#REGION 1
PRIVATE mp, mpm, msel, m.adding
DIMENSION enum[20], enumr[20], mrules[1]
msel = SELECT()
SELECT dict
SET ORDER TO 1
enum = ""
enumr = 0
mrules = ""
mp = 1
m.adding = .F.
m.greco = RECNO()
IF PARAMETER() = 0
  m.newwid = id
ENDIF
SEEK m.newwid
IF !FOUND()
  SCATTER MEMVAR BLANK
  m.adding = .T.
  m.id = m.newwid
  m.name = m.newnm
ELSE
  SCATTER MEMVAR
ENDIF
IF !m.adding
  DO setrules
ENDIF
DO setenum
#REGION 0
REGIONAL m.currearea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
  SET TALK OFF
  m.talkstat = "ON"
ELSE
  m.talkstat = "OFF"
ENDIF
```

```
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON
```

Windows Window definitions

```
IF NOT HEXIST(" qsf0kq5ys")
  DEFINE WINDOW _qsf0kq5ys ;
    AT 0.000, 0.000 ;
    SIZE 33.083, 71.750 ;
    TITLE "Data Element Editor" ;
    FONT "Terminal", 8 ;
    FLOAT ;
    NOCLOSE ;
    MINIMIZE ;
    SYSTEM ;
    COLOR RGB(,,,128,128,128)
  MOVE WINDOW _qsf0kq5ys CENTER
ENDIF
```

DDEDIT/Windows Screen Layout

```
#REGION 1
IF WVISIBLE(" qsf0kq5ys")
  ACTIVATE WINDOW _qsf0kq5ys SAME
ELSE
  ACTIVATE WINDOW _qsf0kq5ys NOSHOW
ENDIF
@ 1.333, 57.750 SAY "Type" ;
  FONT "Terminal", 8 ;
@ 29.167, 12.000 SAY "Hi" ;
  FONT "Terminal", 8 ;
@ 29.167, 31.500 SAY "Lo" ;
  FONT "Terminal", 8 ;
@ 29.333, 49.500 SAY "Units" ;
  FONT "Terminal", 8 ;
@ 1.333, 4.500 SAY "Id" ;
  FONT "Terminal", 8 ;
@ 1.417, 13.500 SAY "Name" ;
  FONT "Terminal", 8 ;
@ 27.167, 9.000 SAY "Width" ;
  FONT "Terminal", 8 ;
@ 27.167, 37.500 SAY "Decimals" ;
  FONT "Terminal", 8 ;
@ 29.083, 4.500 SAY "Range" ;
  FONT "Terminal", 8 ;
@ 17.167, 4.500 SAY "Enum" ;
  FONT "Terminal", 8 ;
@ 27.167, 4.500 SAY "Val" ;
  FONT "Terminal", 8 ;
@ 11.333, 4.500 SAY "Question Askable" ;
  FONT "Terminal", 8 ;
  STYLE "T"
```

```

133: @ 3.167 4.500 SAY "Use in rules:" ;
134: FONT "Terminal", 8 ;
135: STYLE "T"
136: @ 1.167 7.750 GET m.id ;
137: SIZE 1.000,3.125 ;
138: DEFAULT " " ;
139: FONT "Terminal", 8 ;
140: DISABLE
141: @ 1.167 19.750 GET m.name ;
142: SIZE 1.000,33.875 ;
143: DEFAULT " " ;
144: FONT "Terminal", 8
145: @ 1.083 63.000 GET m.datatype ;
146: PICTURE "@ N-E-M:L" ;
147: SIZE 1.500,4.375 ;
148: DEFAULT "N" ;
149: FONT "Terminal", 8 ;
150: VALID qsf0kq6m1( ) ;
151: DISABLE
152: @ 5.167 4.625 GET m.rulesuse ;
153: PICTURE "@&N" ;
154: FROM mrules ;
155: SIZE 4.667,62.875 ;
156: DEFAULT 1 ;
157: FONT "Terminal", 8
158: @ 11.333 22.750 GET m.askable ;
159: SIZE 1.000,4.625 ;
160: DEFAULT .F. ;
161: FONT "Terminal", 8
162: @ 13.167 4.750 EDIT m.question ;
163: SIZE 3.000,62.875,0.000 ;
164: DEFAULT " " ;
165: FONT "Terminal", 8 ;
166: SCROLL ;
167: WHEN m.askable
168: @ 19.167 4.625 GET mp ;
169: PICTURE "@&N" ;
170: FROM enum ;
171: SIZE 7.000,62.875 ;
172: DEFAULT 1 ;
173: FONT "Terminal", 8 ;
174: WHEN m.datatype $ "EML" ;
175: VALID qsf0kq6t0( )
176: @ 27.167 16.750 GET m.width ;
177: SIZE 1.000,13.000 ;
178: DEFAULT 0 ;
179: FONT "Terminal", 8 ;
180: WHEN m.datatype = "N" ;
181: DISABLE
182: @ 27.167 49.750 GET m.dec ;
183: SIZE 1.000,16.000 ;
184: DEFAULT 0 ;
185: FONT "Terminal", 8 ;
186: WHEN m.datatype = "N" ;
187: DISABLE
188: @ 29.167 16.750 GET m.hi ;
189: SIZE 1.000,13.000 ;
190: DEFAULT 0 ;
191: FONT "Terminal", 8 ;
192: WHEN m.datatype = "N" ;
193: DISABLE
194: @ 29.167 34.750 GET m.lo ;
195: SIZE 1.000,13.000 ;
196: DEFAULT 0 ;
197: FONT "Terminal", 8 ;
198: WHEN m.datatype = "N" ;

```

```

199: DISABLE
200: @ 29.333 55.750 GET m.units ;
201: SIZE 1.000,10.000 ;
202: DEFAULT " " ;
203: FONT "Terminal", 8 ;
204: WHEN m.datatype = "N" ;
205: DISABLE
206: @ 31.000 27.000 GET m.buttons ;
207: PICTURE "@*HT OK:Cancel" ;
208: SIZE 1.917,8.375,0.750 ;
209: DEFAULT 1 ;
210: FONT "Terminal", 8 ;
211: VALID _qsf0kq6yy( )
212: IF NOT WVISIBLE(" qsf0kq5ys")
213:   ACTIVATE WINDOW _qsf0kq5ys
214:   ENDIF
215: READ CYCLE ;
216: WHEN _qsf0kq74f( )
217:   RELEASE WINDOW _qsf0kq5ys
218:   #REGION 0
219:   SET readborder &rborder
220:   SET readborder &rborder
221:   IF m.talkstat = "ON"
222:     SET TALK ON
223:   ENDIF
224: IF m.compstat = "ON"
225:   SET COMPATIBLE ON
226: ENDIF
227: *
228: *
229: *
230: *
231: *
232: *
233: *
234: *
235: *
236: *
237: *
238: *
239: *
240: #REGION 1
241: SELECT dict
242: RETURN
243: *
244: *
245: *
246: *
247: *
248: *
249: *
250: *
251: *
252: *
253: *
254: *
255: *
256: *
257: *
258: *
259: #REGION 1
260: FUNCTION setrules
261: PRIVATE msel_mvalid
262: msel = SELECT( )
263: SELECT quals
264: SET FILTER TO id = m.id AND OBJECT = "S"

```

DDEDIT/Windows Cleanup Code

DDEDIT/Windows Supporting Procedures and Functions


```

265: COUNT TO mcount
266: IF mcount > 0
267:   DIMENSION mrules[mcount]
268:   i = 0
269:   SCAN
270:     i = i + 1
271:     mrules[i] = areaname(areat) + " " + rules + " " + ALLTRIM(STRTTRANK(rul
=> es, " " , " "))
272:   IF IEMPTY(ruleso)
273:     mrules[i] = mrules[i] + IIF(EMPTY(rules), " ", " ") ;
274:     mrules[i] = mrules[i] + ALLTRIM(STRTTRANK(ruleso, " " , " "))
275:   ENDIF
276: ENDSCAN
277: ELSE
278:   DIMENSION mrules[1]
279:   mrules[1] = ""
280: ENDIF
281: SET FILTER TO
282: SELECT (msel)
283: RETURN
284:
285: PROCEDURE edenum
286: SELECT enum
287: IF enumr[mp] > 0
288:   GOTO enumr[mp]
289: ENDIF
290: *m.id = dict.id
291: DO ddenum.spr
292: DO setenum
293: SHOW GETS
294: SELECT dict
295: RETURN
296:
297:
298: PROCEDURE setenum
299: enum = " "
300: enumr = 0
301: IF m.datatype $ "EML"
302:   PRIVATE msel, i
303:   msel = SELECT()
304:   SELECT enum
305:   SEEK m.id
306:   i = 0
307:   DO WHILE id = m.id
308:     i = i + 1
309:     enumr[i] = RECNO()
310:     enum[i] = mutex + " " + TRIM( enumerate )
311:   SKIP
312:   ENDDO
313:   mpn = i
314:   mp = MIN(mpn, mp)
315:   mp = MAX(1, mp)
316:   IF enumr[mp] > 0
317:     GOTO enumr[mp]
318:   ENDIF
319:   SELECT (msel)
320: ENDIF
321: RETURN
322:
323: PROCEDURE setval
324: PRIVATE m.dictid
325: IF m.datatype $ "N"
326:   PRIVATE msel, i
327:   msel = SELECT()
328:   SELECT VAL
329:   m.dictid = m.id

```

```

330: SEEK m.id
331: IF FOUND()
332:   SCATTER MEMVAR
333: ELSE
334:   SCATTER MEMVAR BLANK
335:   m.id = m.dictid
336: ENDIF
337: SHOW GETS
338: SELECT (msel)
339: ENDIF
340: RETURN
341:
342: FUNCTION cleanenum
343: PRIVATE msel
344: msel = SELECT()
345: SELECT enum
346: SEEK m.id
347: IF FOUND()
348:   DELETE FOR id = m.id
349:   PACK
350: ENDIF
351: SELECT (msel)
352: RETURN
353:
354: FUNCTION areaname
355: PARAMETER mid
356: PRIVATE msel, mname
357:
358: msel = SELECT()
359: SELECT area
360: SEEK mid
361: IF FOUND()
362:   mname = name
363: ELSE
364:   mname = ""
365: ENDIF
366: SELECT (msel)
367: RETURN mname
368:
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```

_QSF0KQ6M1 m.datatype VALID

Function Origin:

From Platform: Windows
 From Screen: DEDIT,
 Variable: m.datatype
 Called By: VALID clause
 Object Type: Popup
 Snippet Number: 1

Record Number: 17

FUNCTION _qsf0kq6m1 && m.datatype VALID

```

#REGION 1
DO CASE
CASE m.datatype $ "N"
DO setval
enum = " "
SHOW GET mp DISABLE
SHOW GET m.width ENABLE
SHOW GET m.dec ENABLE
SHOW GET m.hi ENABLE

```

```

FUNCTION _qsf0kq6yy      && mbuttons VALID
#REGION 1_
DO CASE
  _CASE mbuttons = 1      && ok
    SELECT dict
    IF m.adding
      APPEND BLANK
    ENDIF
  GATHER MEMVAR
  IF m.datatype $ "N"
    = cleanenum()
    SELECT VAL
    IF m.adding
      APPEND BLANK
    ENDIF
  ENDIF
ENDFUNCTION

```

```

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```

08/09/94	DDENUM.SPR	09:40:17
Author's Name Copyright (c) 1994 Company Name Address City, Zip Description: This program was automatically generated by GENSCRN.		

```

PARAMETERS m.new

```

DDENUM/Windows Setup Code - SECTION 1

```

DDENUM/Windows Screen Layout

```

```

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```

```

*
*
-IF NOT WEXIST(" qsf0kq96z")
  DEFINE WINDOW _qsf0kq96z ;
  AT 20,750, 7,500 ;
  SIZE 9,077,98,200 ;
  FONT "MS Sans Serif", 8 ;
  FLOAT ;
  NOCLOSE ;
  MINIMIZE ;
  SYSTEM
-ENDIF

*
*
*
*
*
*
#REGION 1
-IF WVISIBLE(" qsf0kq96z")
  ACTIVATE WINDOW _qsf0kq96z SAME
-ELSE
  ACTIVATE WINDOW _qsf0kq96z NOSHOW
-ENDIF
  @ 5,154,5,000 SAY "Ord" ;
  FONT "Terminal", 8 ;
  @ 1,462,4,800 SAY "Mutex" ;
  FONT "Terminal", 8 ;
  @ 3,308,4,800 SAY "Enum" ;
  FONT "Terminal", 8 ;
  @ 5,154,14,000 GET m.ord ;
  SIZE 1,000,2,000 ;
  DEFAULT " " ;
  FONT "Terminal", 8 ;
  DISABLE
  @ 1,615,14,400 GET m.mutex ;
  SIZE 1,000,1,000 ;
  DEFAULT " " ;
  FONT "Terminal", 8 ;
  VALID _qsf0kq96z()
  @ 3,231,14,400 GET m.enumerate ;
  SIZE 1,000,47,750 ;
  DEFAULT " " ;
  FONT "Terminal", 8 ;
  PICTURE "q!"
  @ 6,462,26,400 GET m.buttons ;
  PICTURE "q*HN Add;OK;Cancel" ;
  SIZE 1,917,7,500,0,750 ;
  DEFAULT 1 ;
  FONT "Terminal", 8 ;
  VALID _qsf0kq96z()
-IF NOT WVISIBLE(" qsf0kq96z")
  ACTIVATE WINDOW _qsf0kq96z
-ENDIF
  READ CYCLE
  RELEASE WINDOW _qsf0kq96z
#REGION 0

```

```

Windows Window definitions

```

```

DDENUM.AC1 10-3-94 3:01p

```

```

133: SET readborder &rborder
134:
135: IF m.talkstat = "ON"
136: SET TALK ON
137: ENDIF
138: IF m.compstat = "ON"
139: SET COMPATIBLE ON
140: ENDIF
141:
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```

_qsfoKQ9MB	m.mutex VALID	
Function Origin:	Windows	Record Number: 6
From Platform:	DDENUM,	
From Screen:	m.mutex	
Variable:	VALID Clause	
Called By:	Field	
Object Type:	1	
Snippet Number:		

```

158: FUNCTION _qsfoKQ9mb && m.mutex VALID
159: #REGION 1
160: DO CASE
161: CASE m.datatype $ "EL"
162: RETURN m.mutex = ""
163: CASE m.datatype $ "W"
164: RETURN m.mutex $ "-+"
165: ENDCASE
166: RETURN .F.
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```

_qsfoKQ9QC	m.buttons VALID	
Function Origin:	Windows	Record Number: 8
From Platform:	DDENUM,	
From Screen:	m.buttons	
Variable:	VALID Clause	
Called By:	Push Button	
Object Type:	2	
Snippet Number:		

```

182: FUNCTION _qsfoKQ9qc && m.buttons VALID
183: #REGION 1
184: DO CASE
185: CASE m.buttons = 1 && add
186: IF m.enumadd
187: APPEND BLANK
188: GATHER MEMVAR
189: ENDF
190: m.enumadd = .T.
191: m.neword = 0
192: DO WHILE id = m.dictid
193: m.neword = ord
194: SKIP
195: ENDDO
196: SCATTER MEMVAR BLANK
197: m.ord = m.neword + 1
198:

```

```

199: m.id = m.dictid
200: m.mutex = ""
201: CUROBJ = OBJNUM(m.mutex)
202: SHOW GETS
203: CASE mbuttons = 2 && ok
204: IF m.enumadd
205: APPEND BLANK
206: ENDF
207: mok = .T.
208: GATHER MEMVAR
209: CLEAR READ
210: CASE mbuttons = 3 && cancel
211: mok = .F.
212: CLEAR READ
213: ENDCASE
214: *: EOF: DDENUM.ac1

```

08/09/94	KBLOAD.SPR	09:40:19
Author's Name		
Copyright (c) 1994 Company Name		
Address		
City, Zip		
Description: This program was automatically generated by GENSCRN.		

```

DO CASE
CASE _WINDOWS
#REGION 0
REGIONAL m.currarea, m.talkstat, m.compstat
IF SET("TALK") = "ON"
SET TALK OFF
m.talkstat = "ON"
ELSE
m.talkstat = "OFF"
ENDIF
m.compstat = SET("COMPATIBLE")
SET COMPATIBLE FOXPLUS
m.rborder = SET("READBORDER")
SET readborder ON
*

*
*
*
*
*
*

IF NOT WEXIST("_qsfokbq51")
DEFINE WINDOW _qsfokbq51 ;
AT 0,000,0,000 ;
SIZE 22,333,45,500 ;
TITLE "Knowledge Base Loader" ;
FONT "Terminal", 8 ;
FLOAT ;
NOCLOSE ;
SHADOW ;
NONMINIMIZE ;
DOUBLE ;
COLOR RGB(,,,128,128,128)
MOVE WINDOW _qsfokbq51 CENTER
ENDIF
*
```

```

118: FONT "Terminal", 8 ;
119: WHEN loadok() ;
120: VALID qsf0kqcbt() ;
121: DISABLE qsf0kqcbt() ;
122: a 17.417,34.875 GET mbuttonc ;
123: PICTURE "a*VT Cancel" ;
124: SIZE 2.250,7.875,1.083 ;
125: DEFAULT 1 ;
126: FONT "Terminal", 8 ;
127: a 1.250,0.750 SAY "Read From Definition file:" ;
128: FONT "Terminal", 8 ;
129: a 6.083,0.750 SAY "Create Files in Temporary directory:" ;
130: FONT "Terminal", 8 ;
131:
132: IF NOT WVISIBLE("qsf0kqb51")
133:   ACTIVATE WINDOW _qsf0kqb51
134: ENDIF
135:
136: READ CYCLE MODAL
137:
138: RELEASE WINDOW _qsf0kqb51
139:
140: #REGION 0
141: SET readborder &rborder
142:
143: IF m.talkstat = "ON"
144:   SET TALK ON
145: ENDIF
146: IF m.compstat = "ON"
147:   SET COMPATIBLE ON
148: ENDIF
149:
150:
151:
152:

```

```

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```

MS-DOS Window definitions

```

IF NOT WEXIST("qsf0kqci7")
  DEFINE WINDOW qsf0kqci7 ;
  FROM INT((SROW()-18)/2),INT((SCOL()-55)/2) ;
  TO INT((SROW()-18)/2)+1,INT((SCOL()-55)/2)+54 ;
  TITLE "Knowledge Base Loader" ;
  FLOAT ;
  NOCLOSE ;
  SHADOW ;
  NOMINIMIZE ;
  DOUBLE ;
  COLOR SCHEME 5
ENDIF

```

KBLOAD/MS-DOS Setup Code - SECTION 2

```

#REGION 1
m.home = CURDIR()
m.driv = m.new
m.src = ""
m.fil = ""
m.ok = .F.
SET DEFA TO (m.data)
DEFINE POPUP listdir ;
  PROMPT FILES LIKE *.* ;
  SCROLL ;
  MARGIN ;
  MARK " " ;
ON ERROR m.src = ""

```

KBLOAD/MS-DOS Screen Layout

#REGION 1

KBLOAD.AC1 10-3-94 3:01p

-ENDCASE

```
FUNCTION _qsfoqbqbnk    && m.src VALID
#REGION 1
m.src = LOCFILE(m.src, "", "Locate Definition File")
=loadok()
```

```
FUNCTION _qsfoqbt0    && m.new VALID
#REGION 1
=loadok()
```

```

_gsfOKQC1J      m.dbf WHEN
Function Origin:
From Platform:  Windows
From Screen:    KBLOAD,
Variable:        m.dbf
Called By:       WHEN Clause
Object Type:     List
Snippet Number:  3

```

```
FUNCTION qsf0kqc1j && m.dbf WHEN
```

```

357: #REGION 1
358: m.new = PRMBAR("listdir",2)
359: IF FILE(m.new + "\nul")
360: SHOW OBJECT OBJNUM(m.new) ENABLE
361: ELSE
362: SHOW OBJECT OBJNUM(m.new) DISABLE
363: ENDF
364: =loadok()
365:
366:
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371:
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```

```

_QSF0KQC42      m.dbf VALID
Function Origin:
From Platform:  Windows
From Screen:    KBLOAD,
Variable:       m.dbf
Called By:      VALID Clause
Object Type:    List
Snippet Number: 4

```

```

FUNCTION _qsfoqkc42  && m.dbf VALID
#REGION 1
=loadok()

```

```

_QSF0KQC6T      m.load VALID
Function Origin:
From Platform:  Windows
From Screen:    KBLOAD,
Variable:       m.load
Called By:      VALID Clause
Object Type:    Push Button
Snippet Number: 5

```

```

FUNCTION _qsfoqkc6t  && m.load VALID
#REGION 1
m.srcbak = m.src
m.valid = checkfile(m.new)
IF !m.valid
SHOW GET m.load DISABLE
CURSOR = OBJNUM(m.dbf)
m.src = m.srcbak
SHOW GETS
RETURN
ENDIF
olderr = ON("error")
ON ERROR RETURN
mrun = m.src + " " + m.new
m.temp = CURDIR()
m.t1 = LOCFILE("rulex", "exe", "where is file RULEX.EXE")
m.t1 = SUBSTR(m.t1, 1, AT("RULEX.EXE", m.t1) - 1)
SET DEFA TO (m.t1)
RUN /400 rulex &mrun
SET DEFA TO (m.temp)
= popupshow("Working....")
DO kbldr WITH m.new
= popuphide()

```

```

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```

```

ON ERROR &olderr
CLEAR READ

```

```

_QSF0KQCP2      m.src VALID
Function Origin:
From Platform:  MS-DOS
From Screen:    KBLOAD,
Variable:       m.src
Called By:      VALID Clause
Object Type:    Field
Snippet Number: 6

```

```

FUNCTION _qsfoqcp2  && m.src VALID
#REGION 1
m.src = LOCFILE(m.src)
=loadok()

```

```

_QSF0KQCRO      m.new VALID
Function Origin:
From Platform:  MS-DOS
From Screen:    KBLOAD,
Variable:       m.new
Called By:      VALID Clause
Object Type:    Field
Snippet Number: 7

```

```

FUNCTION _qsfoqcro  && m.new VALID
#REGION 1
=loadok()

```

```

_QSF0KQCUA      m.dbf WHEN
Function Origin:
From Platform:  MS-DOS
From Screen:    KBLOAD,
Variable:       m.dbf
Called By:      WHEN Clause
Object Type:    List
Snippet Number: 8

```

```

FUNCTION _qsfoqcua  && m.dbf WHEN
#REGION 1
m.new = PRMBAR("listdir",2)
IF FILE(m.new + "\nul")
SHOW OBJECT OBJNUM(m.new) ENABLE
ELSE
SHOW OBJECT OBJNUM(m.new) DISABLE

```



```

489: _ENDIF
490: =loadok()
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```

_QSF0KQCWT m.dbf VALID

Function Origin:

From Platform: MS-DOS Record Number: 13

From Screen: KBLOAD,

Variable: m.dbf

Called By: VALID Clause

Object Type: List

Snippet Number: 9

_QSF0KQCG m.load VALID

Function Origin:

From Platform: MS-DOS

From Screen: KBLOAD,

Variable: m.load

Called By: VALID Clause

Object Type: Push Button

Snippet Number: 10

KBLOAD/MS-DOS Supporting Procedures and Functions

KBLOAD Function LOADOK

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```

PROCEDURE loadok
DO CASE
CASE _DOS
m.ok = .T.
IF EMPTY(m.src)
m.ok = .F.
ENDIF
m.ok = m.ok .AND. FILE(m.src)
m.new = ALLTRIM(m.new)
IF EMPTY(m.new)
m.ok = .F.
ENDIF
IF RIGHT(m.new, 1) != "\"
m.new = m.new + "\"
ENDIF
m.d1 = IIF(RIGHT(m.data, 1) != "\" , m.data + "\" , m.data)
IF UPPER(FULLPATH(m.new)) == UPPER(FULLPATH(m.d1))
m.ok = .F.
ENDIF
IF FILE(m.new + "nul")
m.ok = .F.
ENDIF
IF m.ok
SHOW OBJECT OBJNUM(m.load) ENABLE
ELSE
SHOW OBJECT OBJNUM(m.load) DISABLE
ENDIF
RETURN m.ok
CASE WINDOWS
m.ok = .T.
IF EMPTY(m.src)
m.ok = .F.
ENDIF
m.ok = m.ok .AND. FILE(m.src)
m.new = ALLTRIM(m.new)
IF EMPTY(m.new)
m.ok = .F.
ENDIF
IF RIGHT(m.new, 1) != "\"
m.new = m.new + "\"
ENDIF
m.d1 = IIF(RIGHT(m.data, 1) != "\" , m.data + "\" , m.data)
IF UPPER(FULLPATH(m.new)) == UPPER(FULLPATH(m.d1))
m.ok = .F.
ENDIF
IF FILE(m.new + "nul")
m.ok = .F.
ENDIF
IF m.ok
SHOW OBJECT OBJNUM(m.load) ENABLE
ELSE
SHOW OBJECT OBJNUM(m.load) DISABLE
ENDIF
RETURN m.ok
ENDCASE
*
*
*
*
*

```

KBLOAD Function CHECKFILE

FUNCTION checkfile

```

621:  PARAMETER m.new
622:  PRIVATE m.exist, m.fload
623:  m.exist = .F.
624:  DO CASE
625:  CASE FILE(m.new + "area.dbf")
626:    m.exist = .T.
627:  CASE FILE(m.new + "rule.dbf")
628:    m.exist = .T.
629:  CASE FILE(m.new + "premise.dbf")
630:    m.exist = .T.
631:  CASE FILE(m.new + "fact.dbf")
632:    m.exist = .T.
633:  CASE FILE(m.new + "action.dbf")
634:    m.exist = .T.
635:  CASE FILE(m.new + "disease.dbf")
636:    m.exist = .T.
637:  CASE FILE(m.new + "dict.dbf")
638:    m.exist = .T.
639:  CASE FILE(m.new + "val.dbf")
640:    m.exist = .T.
641:  CASE FILE(m.new + "enum.dbf")
642:    m.exist = .T.
643:  ENDCASE
644:  m.fload = .T.
645:  IF m.exist
646:    m.fload = yesno("Database in " + m.new + " already exist, overwrit
=> e & delete it?", "YES", "NO")
647:  ENDIF
648:  RETURN m.fload
649:
650:  *: EOF: KBLOAD.ac1

```

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)		2. REPORT DATE JUNE 1996		3. REPORT TYPE AND DATE COVERED FINAL JAN 1994-1995
4. TITLE AND SUBTITLE TECHNICAL MANUAL FOR THE NAVY COMPUTER ASSISTED MEDICAL DIAGNOSIS KNOWLEDGE BASE EDITOR (NCAMD-KBE), VERSION 1.0			5. FUNDING NUMBERS Program Element: 63706N Work Unit Number: M0095.005-6103	
6. AUTHOR(S) HOA L. LY AND DIANNA M. PEARSALL				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Naval Health Research Center P. O. Box 85122 San Diego, CA 92186-5122			8. PERFORMING ORGANIZATION TECHNICAL DOCUMENT 96-4D	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Naval Medical Research and Development Command National Naval Medical Center Building 1, Tower 2 Bethesda, MD 20889-5044			10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution is unlimited.			12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) This technical manual contains the information on the program source code, data elements, and the database structure needed to maintain the Navy Computer Assisted Medical Diagnosis Knowledge Base Editor (NCAMD-KBE). This documentation was created using the FOXDOC version 2.5a program.				
14. SUBJECT TERMS Computer diagnosis Technical Manual			15. NUMBER OF PAGES 181	
			16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT Unlimited	